Appendix table 7-1. **Level of public interest in selected policy issues: 1979–2001**(Percentages)

| | | 197 | 9 | | 1981 | | 1 | 983 | | 198 | 5 | 1 | 988 | | 1 | 990 | | 1 | 992 | | 1 | 995 | | 1 | 997 | 19 | 99 | | 2001 | i |
|-----------------------------|----|------|----|----|-------|----|----|-------|------|------|------|----|------|----|----|-------|----|----|------|----|----|-------|----|----|-------|------|--------|----|-------|------|
| Issue | VI | MI | NI | VI | MI | NI | VI | MI N | II V | I M | NI | VI | MI | NI | VI | MI | NI | VI | MI | NI | VI | MI | NI | VI | MI NI | VI N | /II NI | VI | MI | l NI |
| New medical discoveries | _ | _ | _ | _ | _ | _ | _ | | - 6 | 8 29 | 9 3 | 72 | 25 | 3 | 68 | 29 | 3 | 66 | 31 | 3 | 69 | 27 | 4 | 70 | 26 4 | 68 2 | 28 4 | 65 | 32 | 4 |
| Local schools | 38 | 37 | 25 | 46 | 36 | 18 | 46 | 36 18 | 3 4 | 7 39 | 13 | 51 | 33 | 15 | 50 | 34 | 16 | 53 | 35 | 12 | 57 | 31 | 13 | 58 | 30 11 | 54 3 | 34 12 | 59 | 31 | 10 |
| Environmental pollution | _ | _ | _ | _ | _ | _ | _ | | | | - — | _ | _ | _ | 64 | 31 | 5 | 59 | 36 | 5 | 53 | 41 | 6 | 52 | 40 8 | 51 4 | 11 8 | 48 | 43 | 8 |
| New scientific discoveries | 36 | 49 | 14 | 37 | 45 | 17 | 48 | 40 11 | 1 4 | 4 44 | 1 12 | 43 | 46 | 12 | 39 | 48 | 12 | 36 | 49 | 15 | 44 | 45 | 11 | 49 | 42 8 | 45 | 13 11 | 47 | 45 | 9 |
| Economy and business | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| conditions | 35 | 48 | 17 | 52 | 37 | 10 | 57 | 33 10 |) 4 | 8 4 | 11 | 48 | 42 | 10 | 50 | 40 | 10 | 56 | 36 | 8 | 47 | 42 | 11 | 47 | 42 11 | 42 4 | 15 13 | 45 | 45 | 10 |
| New inventions and | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| technologies | 33 | 51 | 15 | 33 | 50 | 16 | 42 | 45 12 | 2 3 | 9 49 | 12 | 40 | 48 | 12 | 39 | 49 | 12 | 37 | 53 | 10 | 43 | 46 | 11 | 47 | 43 10 | 41 4 | 18 10 | 43 | 47 | 10 |
| Military and defense policy | _ | — | _ | _ | _ | _ | 43 | 42 15 | 5 4 | 7 42 | 2 11 | 47 | 42 | 11 | 55 | 35 | 10 | 47 | 43 | 10 | 37 | 46 | 17 | 35 | 48 17 | 42 4 | 14 14 | 38 | 44 | 18 |
| Agriculture and farming | 23 | 49 | 28 | 24 | 47 | 28 | _ | | - 3 | 0 48 | 3 22 | 40 | 45 | 15 | 24 | 48 | 28 | _ | _ | _ | 21 | 53 | 26 | 24 | 50 26 | 22 5 | 50 28 | 29 | 46 | 25 |
| International and foreign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| policy | 22 | 53 | 24 | 35 | 47 | 18 | 30 | 47 22 | 2 3 | 3 5 | l 16 | 33 | 50 | 16 | 48 | 40 | 12 | 38 | 47 | 15 | 21 | 53 | 26 | 22 | 50 28 | 30 4 | 17 23 | 28 | 49 | 23 |
| Space exploration | | | — | 25 | 44 | 31 | 27 | 45 28 | 3 2 | 9 46 | 3 25 | 34 | 44 | 22 | 26 | 48 | 26 | 22 | 50 | 28 | 25 | 49 | 26 | 32 | 45 22 | 28 4 | 16 25 | 26 | 47 | 27 |
| Sample size (number) | | 1,63 | 5 | (| 3,195 | 5 | 1, | ,631 | | 2,00 |)5 | 2 | ,041 | | 2 | 2,030 | 3 | 2 | ,001 | | 2 | 2,006 | 6 | 2 | ,000 | 1,8 | 382 | 1 | 1,574 | 4 |

^{— =} not asked; VI = very interested; MI = moderately interested; NI = not interested

NOTES: Respondents were read the following statement: "There are a lot of issues in the news, and it is hard to keep up with every area. I'm going to read you a short list of issues, and for each one—as I read it—I would like you to tell me if you are very interested, moderately interested, or not at all interested." "Don't know" responses are not included. Percentages may not add to 100 because of rounding.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-2. **Level of public interest in selected policy issues: 1979–2001**(Mean index scores)

| Issue | 1979 | 1981 | 1983 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| New medical discoveries | _ | _ | _ | 83 | 85 | 83 | 82 | 83 | 83 | 82 | 80 |
| Local schools | 57 | 64 | 64 | 67 | 68 | 67 | 71 | 72 | 73 | 71 | 74 |
| Environmental pollution | _ | _ | _ | _ | _ | 80 | 77 | 74 | 72 | 71 | 70 |
| New scientific discoveries | 61 | 60 | 68 | 66 | 66 | 63 | 61 | 67 | 70 | 67 | 69 |
| Economy and business conditions | 59 | 71 | 74 | 69 | 69 | 70 | 74 | 68 | 68 | 65 | 67 |
| New inventions and technologies | 59 | 58 | 65 | 64 | 64 | 64 | 64 | 66 | 69 | 65 | 66 |
| Military and defense policy | | _ | 64 | 68 | 70 | 73 | 68 | 60 | 59 | 64 | 60 |
| International and foreign policy | | 59 | 54 | 59 | 58 | 68 | 62 | 48 | 47 | 53 | 53 |
| Agriculture and farming | 48 | 48 | _ | 54 | 63 | 48 | _ | 47 | 49 | 47 | 52 |
| Space exploration | _ | 47 | 50 | 52 | 56 | 50 | 47 | 50 | 55 | 51 | 50 |
| Sample size (number) | 1,635 | 3,195 | 1,631 | 2,005 | 2,041 | 2,033 | 2,001 | 2,006 | 2,000 | 1,882 | 1,574 |

^{- =} not asked

NOTES: Respondents were read the following statement: "There are a lot of issues in the news, and it is hard to keep up with every area. I'm going to read you a short list of issues, and for each one—as I read it—I would like you to tell me if you are very interested, moderately interested, or not at all interested." Responses were converted to a 0–100 scale by assigning a value of 100 for a "very interested" response, 50 for "moderately interested," and 0 for "not at all interested." Indices were obtained by adding all the values for each policy issue and computing the average.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

See figure 7-1 in Volume 1. Science & Engineering Indicators – 2002

Appendix table 7-3. **Level of public interest in selected policy issues, by sex and level of education: 2001**(Mean index scores)

| Sex and level of education | New medical discoveries | Local school issues | Environmenta pollution | Issues about new al scientific discoveries | Economic issues and business conditions | Use of new inventions and technologies | Military and defense policy | International and foreign policy issues | Agricultural and farm issues | Space exploration | Sample size (number) |
|----------------------------------|-------------------------------|---------------------------|---------------------------|--|---|--|-----------------------------|---|------------------------------------|----------------------|-------------------------|
| All adults | 80 | 74 | 70 | 69 | 67 | 66 | 60 | 53 | 52 | 50 | 1,574 |
| Male | 75 | 69 | 69 | 72 | 71 | 71 | 66 | 58 | 54 | 57 | 751 |
| Female | 86 | 79 | 71 | 67 | 64 | 62 | 55 | 48 | 51 | 43 | 823 |
| Formal education | | | | | | | | | | | |
| Less than high school | 73 | 77 | 67 | 57 | 53 | 54 | 56 | 39 | 52 | 39 | 116 |
| High school graduate | 82 | 74 | 70 | 70 | 69 | 67 | 62 | 53 | 53 | 50 | 834 |
| Baccalaureate degree | 81 | 74 | 71 | 75 | 74 | 72 | 60 | 62 | 49 | 57 | 393 |
| Graduate/professional degree | 82 | 72 | 75 | 78 | 75 | 74 | 60 | 68 | 49 | 56 | 221 |
| Science/mathematics education le | evel ^a | | | | | | | | | | |
| Low | 80 | 75 | 71 | 65 | 65 | 62 | 62 | 48 | 56 | 44 | 674 |
| Middle | 81 | 75 | 66 | 71 | 70 | 68 | 58 | 56 | 47 | 52 | 469 |
| High | 81 | 71 | 73 | 78 | 70 | 75 | 60 | 61 | 49 | 61 | 431 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/mathematics courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

NOTES: Respondents were read the following statement: "There are a lot of issues in the news, and it is hard to keep up with every area. I'm going to read you a short list of issues, and for each one—as I read it—I would like you to tell me if you are very interested, moderately interested, or not at all interested." Responses were converted to a 0–100 scale by assigning value of 100 for a "very interested" response, 50 for "moderately interested," and 0 for "not at all interested." Indices were obtained by adding all values for each policy issue and computing the average.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-2 in Volume 1. Science & Engineering Indicators – 2002

Appendix table 7-4. **Feeling informed about selected policy issues: 1979–2001 (selected years)**(Percentages)

| | | 1979 |) | 1 | 1981 | | | 198 | 3 | - | 1985 | 5 | 1 | 988 | | 1 | 990 | | 1 | 992 | | 1 | 995 | ; | 1 | 997 | 7 | 1 | 1999 |) | | 2001 | $\overline{}$ |
|------------------------------|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|-------|----|----|-------|----|----|------|----|----|------|----|----|------|----|----|------|---------------|
| Issue | VI | MI | NI | VI | MI | NI | VI | MI | NI | VI | MI | NI | VI | MI | NI | VI | MI | NI | VI | MI | NI |
| Local school issues | 20 | 48 | 32 | 32 | 45 | 22 | 34 | 41 | 25 | 30 | 47 | 22 | 33 | 44 | 23 | 32 | 46 | 21 | 32 | 46 | 22 | 36 | 46 | 18 | 38 | 44 | 17 | 35 | 47 | 18 | 35 | 48 | 17 |
| Economic issues and | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| business conditions | 14 | 55 | 31 | 29 | 51 | 20 | 28 | 52 | 20 | 22 | 51 | 26 | 22 | 55 | 22 | 25 | 55 | 20 | 29 | 54 | 17 | 25 | 53 | 22 | 25 | 51 | 24 | 23 | 53 | 24 | 23 | 56 | 22 |
| New medical discoveries | _ | _ | _ | _ | _ | _ | _ | _ | _ | 24 | 57 | 18 | 22 | 59 | 19 | 24 | 57 | 20 | 22 | 58 | 21 | 23 | 57 | 20 | 28 | 56 | 16 | 25 | 56 | 19 | 21 | 59 | 20 |
| Environmental pollution | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 32 | 55 | 13 | 29 | 56 | 15 | 24 | 56 | 20 | 23 | 55 | 21 | 21 | 54 | 25 | 18 | 58 | 24 |
| Military and defense policy | _ | _ | _ | _ | _ | _ | 21 | 50 | 29 | 21 | 48 | 31 | 17 | 51 | 32 | 26 | 51 | 23 | 24 | 51 | 25 | 17 | 47 | 36 | 18 | 42 | 40 | 21 | 46 | 33 | 15 | 48 | 37 |
| Issues about new scientific | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discoveries | 10 | 52 | 37 | 13 | 49 | 38 | 13 | 53 | 34 | 13 | 59 | 27 | 14 | 55 | 31 | 14 | 55 | 31 | 12 | 54 | 34 | 13 | 58 | 29 | 19 | 58 | 23 | 17 | 56 | 28 | 14 | 57 | 29 |
| Agricultural and farm issues | 10 | 44 | 45 | 14 | 42 | 44 | _ | _ | _ | 17 | 47 | 35 | 20 | 52 | 27 | 13 | 46 | 42 | _ | _ | — | 11 | 47 | 42 | 13 | 49 | 38 | 11 | 43 | 45 | 14 | 44 | 43 |
| The use of new inventions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| and technologies | 10 | 50 | 39 | 11 | 48 | 40 | 14 | 55 | 32 | 12 | 54 | 34 | 12 | 51 | 36 | 11 | 53 | 35 | 10 | 56 | 33 | 12 | 55 | 33 | 16 | 56 | 28 | 17 | 53 | 30 | 12 | 52 | 36 |
| International and foreign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| policy issues | 8 | 54 | 37 | 17 | 54 | 28 | 14 | 51 | 35 | 15 | 53 | 32 | 14 | 55 | 31 | 22 | 57 | 22 | 19 | 54 | 26 | 10 | 52 | 37 | 10 | 52 | 38 | 14 | 52 | 34 | 12 | 46 | 43 |
| Space exploration | _ | _ | _ | 14 | 46 | 40 | 13 | 52 | 34 | 16 | 52 | 32 | 13 | 52 | 34 | 11 | 51 | 38 | 9 | 48 | 44 | 9 | 48 | 43 | 16 | 50 | 34 | 13 | 48 | 40 | 10 | 45 | 46 |
| Sample size (number) | | 1,63 | 5 | ; | 3,19 | 5 | | 1,63 | 1 | | 2,00 | 5 | | 2,04 | 1 | 2 | 2,033 | 3 | | 2,001 | | 2 | 2,00 | 6 | 2 | ,000 |) | | 1,88 | 2 | 1 | ,574 | Į. |

VI = very well informed; MI = moderately well informed; NI = poorly informed; — = not asked

NOTES: Percentages may not add to 100 because of rounding. "Don't know" responses are not included. Responses are to the following statement: Now I'd like to go through this list with you again, and for each issue I'd like you to tell me if you are very well informed, moderately well informed, or poorly informed.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-5. **Feeling informed about selected policy issues: 1979–2001**(Mean index scores)

| Issue | 1979 | 1981 | 1983 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Local school issues | 44 | 55 | 54 | 54 | 55 | 55 | 55 | 59 | 61 | 58 | 59 |
| Economic issues and business conditions | 42 | 55 | 54 | 48 | 50 | 53 | 56 | 52 | 51 | 50 | 51 |
| New medical discoveries | _ | _ | _ | 53 | 52 | 53 | 51 | 52 | 56 | 53 | 51 |
| Environmental pollution | _ | _ | _ | _ | _ | 60 | 57 | 52 | 51 | 48 | 47 |
| Issues about new scientific discoveries | 36 | 38 | 40 | 43 | 42 | 42 | 39 | 42 | 48 | 44 | 42 |
| Military and defense policy | _ | _ | 46 | 45 | 43 | 51 | 49 | 40 | 39 | 44 | 39 |
| The use of new inventions and technologies | | 35 | 42 | 39 | 38 | 38 | 38 | 40 | 44 | 43 | 38 |
| Agricultural and farm issues | 33 | 35 | _ | 41 | 46 | 36 | _ | 35 | 38 | 33 | 35 |
| International and foreign policy issues | 35 | 44 | 40 | 42 | 42 | 51 | 46 | 36 | 36 | 40 | 35 |
| Space exploration | _ | 37 | 39 | 42 | 39 | 37 | 33 | 33 | 41 | 37 | 32 |
| Sample size (number) | 1,635 | 3,195 | 1,631 | 2,005 | 2,041 | 2,033 | 2,001 | 2,006 | 2,000 | 1,882 | 1,574 |

^{- =} not asked

NOTES: Respondents were read the following statement: "Now, I'd like to go through this list with you again, and for each issue I'd like you to tell me if you are very well informed, moderately well informed, or poorly informed." Responses were converted to a 0–100 scale by assigning a value of 100 for a "very well informed" response, 50 for "moderately well informed," and 0 for "poorly informed." Indices were obtained by adding all the values for each policy issue and computing the average.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

See figure 7-1 in Volume 1. Science & Engineering Indicators – 2002

Appendix table 7-6.

Feeling informed about selected policy issues, by sex and level of education: 2001 (Mean index scores)

| Sex and level of education | Local school issues | New medical discoveries | Economic issues and business conditions | Environmental pollution | Issues about new scientific discoveries | Military and defense policy | Use of new inventions and technologies | Agricultural and farming issues | International and foreign policy issues | Space Sexploration | Sample size (number) |
|--|---------------------------|-------------------------------|---|----------------------------|---|-----------------------------|--|---------------------------------|---|--------------------|-------------------------|
| All adults | 59 | 51 | 51 | 47 | 42 | 39 | 38 | 35 | 35 | 32 | 1,574 |
| Male | 54 | 47 | 55 | 46 | 44 | 44 | 40 | 36 | 38 | 39 | 751 |
| Female | 64 | 54 | 46 | 48 | 40 | 34 | 37 | 35 | 31 | 26 | 823 |
| Formal education | | | | | | | | | | | |
| Less than high school | 57 | 45 | 38 | 45 | 33 | 32 | 31 | 38 | 30 | 26 | 116 |
| High school graduate | 60 | 52 | 51 | 47 | 41 | 40 | 38 | 37 | 33 | 32 | 834 |
| Baccalaureate degree | 59 | 50 | 59 | 48 | 49 | 40 | 43 | 29 | 40 | 37 | 393 |
| Graduate/professional degree | 61 | 54 | 58 | 53 | 57 | 39 | 49 | 28 | 48 | 38 | 221 |
| Science/mathematics education ^a | | | | | | | | | | | |
| Low | 59 | 50 | 46 | 46 | 37 | 36 | 34 | 39 | 31 | 29 | 674 |
| Middle | 61 | 51 | 55 | 48 | 45 | 42 | 40 | 33 | 37 | 31 | 469 |
| High | | 52 | 56 | 49 | 52 | 41 | 47 | 30 | 40 | 41 | 431 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/mathematics courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

NOTES: Respondents were read the following statement: "Now, I'd like to go through this list with you again, and for each issue I'd like you to tell me if you are very well informed, moderately well informed, or poorly informed." Responses were converted to a 0–100 scale by assigning a value of 100 for a "very well informed" response, 50 for "moderately well informed," and 0 for "poorly informed." Indices were obtained by adding all the values for each policy issue and computing the average.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-2 in Volume 1.

Appendix table 7-7. **Public attentiveness to selected policy issues: 1979–2001** (Percentages)

| | | 1979 | 9 | 1 | 1981 | | 1 | 983 | ; | | 1985 | 5 | - | 1988 | ; | 1 | 990 | | 199 | 2 | | 1995 | 5 | 1 | 997 | , | 1 | 999 |) | 2 | 2001 |
|-------------------------------------|----|------|----|----|-------|----|----|-----|----|----|------|----|----|-------|----|----|-------|----|-------|----|----|------|----------|----|------|----|----|------|----|----|-------|
| Issue | AP | ΙP | RP | AP | ΙP | RP | AP | ΙP | RP | AP | ΙP | RP | AP | ΙP | RP | AP | IP RP | AP | IP. | RP | AP | ΙP | RP | AP | ΙP | RP | AP | ΙP | RP | AP | IP RP |
| Local schools | 17 | 21 | 62 | 27 | 19 | 54 | 27 | 20 | 54 | 26 | 22 | 52 | 31 | 20 | 49 | 28 | 23 49 | 26 | 25 | 49 | 32 | 25 | 43 | 33 | 25 | 42 | 29 | 25 | 46 | 31 | 28 41 |
| International and foreign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| policy issues | 6 | 16 | 78 | 6 | 29 | 65 | 8 | 23 | 70 | 8 | 25 | 67 | 8 | 25 | 67 | 14 | 34 52 | 11 | 27 | 62 | 5 | 16 | 79 | 5 | 18 | 77 | 7 | 23 | 70 | 5 | 23 72 |
| Issues about new scientific | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discoveries | 7 | 29 | 64 | 9 | 28 | 63 | 9 | 40 | 52 | 8 | 36 | 56 | 8 | 34 | 57 | 8 | 31 61 | 7 | 29 | 64 | 7 | 37 | 56 | 11 | 38 | 51 | 8 | 37 | 55 | 7 | 39 53 |
| The use of new inventions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| and technologies | 6 | 27 | 67 | 8 | 26 | 67 | 8 | 34 | 58 | 8 | 31 | 61 | 7 | 33 | 60 | 7 | 32 61 | 6 | 30 | 63 | 6 | 37 | 57 | 9 | 38 | 53 | 7 | 34 | 59 | 6 | 36 58 |
| Science and technology ^a | 9 | 37 | 54 | 12 | 35 | 54 | 13 | 48 | 39 | 12 | 44 | 45 | 11 | 42 | 46 | 11 | 40 49 | 10 | 40 | 50 | 10 | 47 | 43 | 14 | 46 | 40 | 12 | 44 | 44 | 10 | 48 42 |
| Space exploration | — | _ | _ | 7 | 18 | 75 | 7 | 20 | 73 | 9 | 20 | 71 | 8 | 26 | 66 | 6 | 20 74 | 5 | 17 | 78 | 5 | 20 | 75 | 8 | 24 | 68 | 6 | 22 | 72 | 5 | 21 74 |
| New medical discoveries | _ | _ | _ | _ | _ | _ | _ | _ | _ | 17 | 51 | 32 | 16 | 56 | 28 | 16 | 52 32 | 17 | 49 | 34 | 16 | 53 | 31 | 19 | 52 | 29 | 16 | 52 | 32 | 14 | 51 35 |
| Environmental pollution | — | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 20 | 43 36 | 18 | 41 | 41 | 12 | 40 | 48 | 12 | 40 | 48 | 10 | 41 | 49 | 10 | 38 52 |
| Economic issues and | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| business conditions | 9 | 26 | 65 | 12 | 40 | 48 | 19 | 38 | 43 | 16 | 32 | 52 | 15 | 33 | 52 | 17 | 34 50 | 19 | 38 | 44 | 15 | 32 | 53 | 14 | 32 | 54 | 12 | 30 | 58 | 12 | 33 55 |
| Agriculture | 5 | 18 | 77 | 3 | 21 | 76 | _ | _ | _ | 9 | 21 | 70 | 9 | 31 | 60 | 6 | 18 76 | _ | _ | _ | 5 | 16 | 79 | 5 | 18 | 77 | 6 | 16 | 78 | 6 | 23 71 |
| Military and defense | _ | _ | _ | _ | _ | _ | 14 | 29 | 57 | 13 | 34 | 53 | 16 | 56 | 28 | 16 | 39 45 | 16 | 31 | 53 | 8 | 29 | 63 | 9 | 26 | 65 | 10 | 32 | 58 | 7 | 31 62 |
| Sample size (number) | | 1,6 | 35 | 3 | 3,195 | | 1 | ,63 | 1 | 2 | ,005 | , | 2 | 2,041 | | 2 | ,033 | 2 | 2,001 | 1 | 2 | ,006 |) | 2 | 2,00 | 0 | | 1,88 | 2 | 1 | ,574 |

AP = attentive public; IP = interested public; RP = residual public; — = not asked

^aThe attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. To be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. Responses are to the following statements:

-There are a lot of issues in the news, and it is hard to keep up with every area. I'm going to read to you a short list of issues, and for each one—as I read it—I would like you to tell me if you are interested, moderately interested, or not at all interested.

-Now I'd like to go through this list with you again, and for each issue I'd like you to tell me if you are very well informed, moderately well informed, or poorly informed.

-Now let me change the topic slightly and ask you how you get information. First, how often do you read a newspaper: every day, a few times a week, once a week, or less than once a week? Is there any magazine that you read regularly, that is, most of the time? What magazine would that be? Is there another magazine that you read regularly? What magazine would that be?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-8. **Public attentiveness to science and technology issues, by sex and level of education: 2001**(Percentages)

| | | cientific veries | inventi | ew ons and ologies | | ce and ology ^a | | nedical overies | Spa explo | ace ration | Environ pollu | | Sample size |
|--|----|---------------------|---------|--------------------------|----|------------------------------|----|--------------------|--------------|---------------|------------------|----|----------------|
| Sex and level of education | AP | IP | AP | IP | AP | IP | AP | IP | AP | IP | AP | IP | (number) |
| All adults | 7 | 39 | 6 | 36 | 10 | 48 | 14 | 51 | 5 | 21 | 10 | 38 | 1,574 |
| Male | 10 | 41 | 9 | 41 | 13 | 50 | 11 | 44 | 8 | 28 | 11 | 36 | 751 |
| Female | 5 | 37 | 4 | 31 | 8 | 46 | 17 | 57 | 2 | 14 | 10 | 40 | 823 |
| Formal education | | | | | | | | | | | | | |
| Less than high school | 3 | 34 | 2 | 29 | 3 | 40 | 7 | 52 | 0 | 24 | 6 | 39 | 116 |
| High school graduate | 6 | 40 | 6 | 36 | 10 | 50 | 15 | 51 | 6 | 19 | 10 | 38 | 834 |
| Baccalaureate degree | 11 | 41 | 8 | 39 | 13 | 49 | 14 | 50 | 7 | 25 | 11 | 36 | 393 |
| Graduate/professional degree | 18 | 41 | 11 | 41 | 23 | 44 | 20 | 48 | 8 | 18 | 17 | 38 | 221 |
| Science/mathematics education ^b | | | | | | | | | | | | | |
| Low | 5 | 36 | 4 | 33 | 7 | 45 | 12 | 52 | 2 | 20 | 9 | 41 | 674 |
| Middle | 8 | 42 | 8 | 39 | 12 | 51 | 15 | 49 | 6 | 20 | 12 | 32 | 469 |
| High | 15 | 42 | 10 | 41 | 18 | 50 | 17 | 48 | 11 | 26 | 13 | 38 | 431 |

AP = attentive public; IP = interested public

^aThe attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of these issues but who is a member of the interested public for at least one of these issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

^bRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

NOTES: To be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, that he or she is "very well informed" about it, and that he or she is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. A few respondents did not provide information about their highest level of education. Responses are to the following statements:

-There are a lot of issues in the news, and it is hard to keep up with every area. I'm going to read you a short list of issues, and for each one—as I read it—I would like you to tell me if you are interested, moderately interested, or not at all interested.

-Now, I'd like to go through this list with you again, and for each issue, I'd like you to tell me if you are very well informed, moderately well informed, or poorly informed.

-How often do you read a newspaper: every day, a few times a week, once a week, or less than once a week? Is there any magazine that you read regularly, that is, most of the time? What magazine would that be? Is there another magazine that you read regularly? What magazine would that be?"

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-3 in Volume 1.

Appendix table 7-9.

Correct answers to scientific terms and concept questions: 1995–2001

(Aggregated percentages)

| Characteristic | 1995 | 1997 | 1999 | 2001 |
|---|------|------|------|------|
| All adults | 63 | 61 | 62 | 64 |
| Male | 69 | 67 | 67 | 70 |
| Female | 58 | 56 | 58 | 59 |
| Formal education | | | | |
| Less than high school | 45 | 48 | 48 | 50 |
| High school graduate | 60 | 61 | 62 | 63 |
| Baccalaureate | 72 | 73 | 75 | 77 |
| Graduate/professional | 81 | 79 | 80 | 80 |
| Science/mathematics education ^a | | | | |
| Low | 53 | 53 | 54 | 56 |
| Middle | 67 | 65 | 68 | 68 |
| High | 78 | 79 | 79 | 81 |
| Attentiveness to science or technology ^b | | | | |
| Attentive public | 74 | 71 | 72 | 73 |
| Interested public | 65 | 64 | 65 | 67 |
| Residual public | 56 | 54 | 56 | 59 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/mathematics courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of these issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology

NOTES: This measure includes responses to the following true/false questions:

- -All radioactivity is man-made. (False)
- -Electrons are smaller than atoms. (True)
- -The continents on which we live have been moving their location for millions of years and will continue to move in the future. (True)
- -The earliest humans lived at the same time as the dinosaurs. (False)
- -The center of the Earth is hot. (True)
- -The oxygen we breathe comes from plants. (True)
- -It is the father's gene that decides whether the baby is a boy or a girl. (True)
- -Lasers work by focusing sound waves. (False)
- -Antibiotics kill viruses as well as bacteria. (False)
- -The universe began with a huge explosion. (True)
- -Human beings, as we know them today, developed from earlier species of animals. (True)
- -Cigarette smoking causes lung cancer. (True)
- -Radioactive milk can be made safe by boiling it. (False)

The following short-answer items were also included:

- -Which travels faster: light or sound? (Light)
- -Does the Earth go around the Sun, or does the Sun go around the Earth? (Earth around the Sun)
- -How long does it take for the Earth to go around the Sun: one day, one month, or one year? (One year)

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-10.

Correct answers to specific science literacy questions: 2001

(Percentages)

| | | | | | | | | | | | | | | | | | | | Sample size |
|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------|
| Characteristic | Α | В | С | D | Е | F | G | Н | I | J | K | L | М | N | 0 | Р | Q | R | (number) |
| All adults | 80 | 76 | 87 | 65 | 45 | 48 | 51 | 33 | 79 | 53 | 94 | 48 | 65 | 76 | 75 | 54 | 45 | 22 | 1,574 |
| Male | 85 | 81 | 92 | 58 | 61 | 52 | 46 | 43 | 83 | 57 | 94 | 50 | 70 | 89 | 86 | 66 | 47 | 28 | 751 |
| Female | 76 | 71 | 82 | 72 | 30 | 43 | 55 | 24 | 74 | 50 | 93 | 45 | 60 | 65 | 66 | 42 | 44 | 15 | 823 |
| Formal education | | | | | | | | | | | | | | | | | | | |
| Less than high school | 71 | 61 | 79 | 45 | 32 | 29 | 25 | 20 | 62 | 45 | 95 | 36 | 52 | 61 | 52 | 31 | 28 | 27 | 116 |
| High school graduate | 79 | 75 | 88 | 66 | 41 | 45 | 49 | 32 | 79 | 49 | 92 | 46 | 63 | 78 | 76 | 51 | 38 | 17 | 834 |
| Baccalaureate | 90 | 92 | 88 | 77 | 65 | 66 | 73 | 44 | 89 | 67 | 96 | 58 | 78 | 85 | 92 | 77 | 69 | 28 | 393 |
| Graduate/professional | 92 | 86 | 89 | 76 | 65 | 70 | 76 | 59 | 90 | 81 | 95 | 67 | 80 | 82 | 92 | 76 | 68 | 37 | 221 |
| Science/mathematics education ^a | | | | | | | | | | | | | | | | | | | |
| Low | 73 | 67 | 55 | 59 | 33 | 33 | 39 | 25 | 72 | 46 | 92 | 40 | 60 | 71 | 65 | 39 | 28 | 10 | 674 |
| Middle | 86 | 80 | 58 | 69 | 49 | 56 | 57 | 38 | 82 | 56 | 95 | 53 | 64 | 79 | 92 | 61 | 54 | 23 | 469 |
| High | 92 | 92 | 91 | 77 | 71 | 77 | 76 | 50 | 91 | 69 | 96 | 62 | 80 | 89 | 94 | 83 | 70 | 37 | 431 |
| Attentiveness to science | 76 | 71 | 82 | 72 | 30 | 43 | 55 | 24 | 74 | 50 | 93 | 45 | 60 | 65 | 66 | 42 | 44 | 15 | 823 |
| or technology ^b | | | | | | | | | | | | | | | | | | | |
| Attentive public | 88 | 80 | 89 | 68 | 58 | 57 | 56 | 50 | 90 | 72 | 93 | 61 | 78 | 82 | 83 | 66 | 50 | 28 | 195 |
| Interested public | 83 | 79 | 88 | 67 | 47 | 51 | 57 | 39 | 81 | 53 | 94 | 48 | 65 | 80 | 81 | 58 | 48 | 22 | 755 |
| Residual public | 76 | 71 | 84 | 62 | 39 | 42 | 43 | 24 | 73 | 49 | 93 | 44 | 62 | 71 | 68 | 46 | 41 | 19 | 624 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/mathematics courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of these issues but is a member of the interested public for at least one of these issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Responses are correct for the following statements:

- A = The center of the Earth is very hot. (True)
- B = All radioactivity is man-made. (False)
- C = The oxygen we breathe comes from plants. (True)
- D = It is the father's gene which decides whether the baby is a boy or a girl. (True)
- E = Lasers work by focusing sound waves. (False)
- F = Electrons are smaller than atoms. (True)
- G = Antibiotics kill viruses as well as bacteria. (False)
- H = The universe began with a huge explosion. (True)
- I = The continents on which we live have been moving their location for millions of years and will continue to move in the future. (True)
- J = Human beings, as we know them today, developed from earlier species of animals. (True)
- K = Cigarette smoking causes lung cancer. (True)
- L = The earliest humans lived at the same time as the dinosaurs. (False)
- M = Radioactive milk can be made safe by boiling it. (False)
- N = Which travels faster: light or sound? (Light)
- O = Does the Earth go around the Sun, or does the Sun go around the Earth? (Earth around the Sun)
- P = How long does it take for the Earth to go around the Sun: one day, one month, or one year? (One year)

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Appendix table 7-10.

Correct answers to specific science literacy questions: 2001

(Percentages)

Q = Please tell me in your own words, what is DNA?

R = Please tell me in your own words, what is a molecule?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See Figure 7-4 in volume 1.

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A7-12 Appendix Tables

Appendix table 7-11.

Public understanding of the nature of scientific inquiry: 2001

| | | Scientific | | |
|--|---------|------------|------------|-------------|
| Characteristic | Inquiry | study | Experiment | Probability |
| All adults | 30 | 33 | 43 | 57 |
| Male | 30 | 33 | 44 | 58 |
| Female | 29 | 33 | 43 | 56 |
| Formal education | | | | |
| Less than high school | 10 | 24 | 26 | 32 |
| High school graduate | 28 | 26 | 41 | 59 |
| Baccalaureate | | 52 | 58 | 70 |
| Graduate/professional | 54 | 59 | 67 | 76 |
| Science/mathematics education ^a | | | | |
| Low | 17 | 19 | 29 | 47 |
| Middle | 38 | 39 | 54 | 63 |
| High | 53 | 55 | 64 | 77 |
| Attentiveness to science and technology ^b | | | | |
| Attentive public | 35 | 33 | 43 | 63 |
| Interested public | 32 | 34 | 45 | 58 |
| Residual public | 26 | 32 | 41 | 55 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of these issues but who is a member of the interested public for at least one of these issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology

NOTES: The level of understanding of the nature of scientific inquiry is estimated using a combination of each survey participant's responses to three questions. To be classified as understanding the nature of scientific inquiry, a respondent had to answer all the probability questions correctly and either provide a "theory-testing" response to the question about what it means to study something scientifically or provide a correct response to the openended questions about the experiment, i.e., explain why it was better to test a drug using a control group. Responses are to the following:

-When you read news stories, you see certain sets of words and terms. We are interested in how many people recognize certain kinds of terms, and I would like to ask you a few brief questions in that regard. First, some articles refer to the results of a scientific study. When you read or hear the term scientific study, do you have a clear understanding of what it means, a general sense of what it means, or little understanding of what it means?" If the response is "clear understanding" or "general sense": In your own words, could you tell me what it means to study something scientifically?

-Now, please think of this situation: Two scientists want to know if a certain drug is effective in treating high blood pressure. The first scientist wants to give the drug to 1,000 people with high blood pressure and see how many experience lower blood pressure levels. The second scientist wants to give the drug to 500 people with high blood pressure and not give the drug to another 500 people with high blood pressure and see how many in both groups experience lower blood pressure levels. Which is the better way to test this drug? Why is it better to test the drug this way?

-Now think about this situation: A doctor tells a couple that their "genetic makeup" means that they've got one in four chances of having a child with an inherited illness. Does this mean that if their first three children are healthy, the fourth will have the illness? Does this mean that if their first child has the illness, the next three will not? Does this mean that each of the couple's children will have the same risk of suffering from the illness? Does this mean that if they have only three children, none will have the illness?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-5 in Volume 1.

Appendix table 7-12.

Attitudes toward science and technology items included in the Index of Scientific Promise and the Index of Scientific Reservation: 2001 (Percentages)

| | Strongly | | Do not | | Strongly |
|---|----------------|---------|--------|----------|----------|
| Item | agree | Agree | know | Disagree | disagree |
| Pr | romise of scie | ence | | | |
| Science and technology are making our lives healthier, easier, and | | | | | |
| more comfortable. | 14 | 72 | 3 | 10 | 1 |
| Most scientists want to work on things that will make life better | | | | | |
| for the average person. | 11 | 78 | 3 | 8 | 1 |
| With the application of science and new technology, work will | | | | | |
| become more interesting. | 9 | 63 | 5 | 21 | 2 |
| Because of science and technology, there will be more opportunities | | | | | |
| for the next generation. | 21 | 64 | 2 | 12 | 2 |
| Reserv | vations about | science | | | |
| We depend too much on science and not enough on faith | 11 | 40 | 4 | 41 | 5 |
| It is not important for me to know about science in my daily life | 2 | 14 | 1 | 61 | 22 |
| Science makes our way of life change too fast | 4 | 34 | 2 | 54 | 5 |
| E | 3>>H | B>H | B=H | H>B | H>>B |
| Have the benefits of scientific research outweighed the harmful | | | | | |
| results or have the harmful results outweighed the benefits? | 47 | 25 | 19 | 7 | 3 |

B>>H = benefits strongly outweigh harmful results; B>H = benefits outweigh harmful results; B=H = benefits equal harmful results; H>B = harmful results outweigh benefits; H>>B = harmful results strongly outweigh benefits

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-13.

Results of Attitude Toward Organized Science Scale: 1983–2001

| Items and characteristics | 1983 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|--|---------|-----------|-------|-------|-------|-------|-------|-------|-------|
| | Per | cent | | | | | | | |
| Agree that "science and technology are making our lives healthier, | | | | | | | | | |
| easier, and more comfortable." | 84 | 86 | 87 | 84 | 85 | 86 | 89 | 90 | 86 |
| Agree that "the benefits of science are greater than any | | | | | | | | | |
| harmful effects." | 57 | 68 | 76 | 72 | 73 | 72 | 75 | 75 | 72 |
| Disagree that "science makes our way of life change too fast." | | 53 | 59 | 60 | 63 | 60 | 61 | 57 | 59 |
| Disagree that "we depend too much on science and not enough | | | | | | | | | |
| on faith." | 43 | 39 | 43 | 44 | 45 | 44 | 48 | 46 | 45 |
| | ean ATC | OSS score | | | | | | | |
| All adults | 2.3 | 2.5 | 2.7 | 2.6 | 2.7 | 2.6 | 2.7 | 2.7 | 2.6 |
| Male | 2.2 | 2.4 | 2.6 | 2.5 | 2.7 | 2.7 | 2.9 | 2.8 | 2.7 |
| Female | 2.5 | 2.6 | 2.8 | 2.8 | 2.6 | 2.5 | 2.6 | 2.6 | 2.5 |
| Formal education | | | | | | | | | |
| Less than high school | 1.8 | 1.8 | 2.2 | 1.8 | 2.0 | 2.0 | 2.2 | 2.0 | 2.1 |
| High school graduate | 2.4 | 2.6 | 2.8 | 2.7 | 2.7 | 2.6 | 2.7 | 2.7 | 2.6 |
| Baccalaureate | 2.9 | 3.1 | 3.2 | 3.1 | 3.3 | 3.3 | 3.2 | 3.1 | 3.0 |
| Graduate/professional | 2.9 | 3.1 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 3.3 | 3.2 |
| Science/mathematics education ^a | | | | | | | | | |
| Low | NA | NA | NA | 2.4 | 2.5 | 2.3 | 2.5 | 2.4 | 2.4 |
| Middle | NA | NA | NA | 2.9 | 2.7 | 2.9 | 2.9 | 2.8 | 2.8 |
| High | NA | NA | NA | 3.3 | 3.3 | 3.2 | 3.3 | 3.3 | 3.1 |
| Attentiveness to science or technology ^b | | | | | | | | | |
| Attentive public | 2.6 | 2.8 | 3.0 | 2.8 | 2.9 | 3.1 | 3.0 | 3.0 | 2.9 |
| Interested public | 2.4 | 2.6 | 2.8 | 2.7 | 2.8 | 2.7 | 2.9 | 2.8 | 2.7 |
| Residual public | 2.1 | 2.3 | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 | 2.4 |
| Sample size (number) | | 2,005 | 2,041 | 2,033 | 3,977 | 2,006 | 2,000 | 1,882 | 1,574 |

ATOSS = Attitude Toward Organized Science Scale; NA = not available

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue area, report that he or she is "very well informed" about it, and be a regular reader of a daily newspaper or relevant national magazine. Citizens who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Responses are to the following statement: "Now I would like to read you some statements like those you might find in a newspaper or magazine article. For each statement, please tell me if you generally agree or disagree. If you feel especially strongly about a statement, please tell me that you strongly agree or strongly disagree." The scale is a count of agreement with the first two items and disagreement with the last two items. ATOSS scores for each respondent range from 0 to 4, with a score of 4 representing agreement with the first two items and disagreement with the last two, and a score of 0 representing disagreement with the first two items and agreement with the last two.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-14. Belief that people would do better by living a simpler life: 1997, 1999, and 2001

| Characteristic | 1997 | 1999 | 200 |
|---|-------|----------|--------|
| Percent | | | |
| All adults | | | |
| Strongly agree | 6 | 7 | 7 |
| Agree | | 39 | 37 |
| Do not know | | 3 | 4 |
| Disagree | | 48 | 48 |
| Strongly disagree | | 3 | 5 |
| Male | | | |
| Strongly agree | 6 | 6 | 7 |
| Agree | | 34 | 32 |
| Do not know | | 4 | 2 |
| Disagree | | 53 | 52 |
| Strongly disagree | | 3 | 7 |
| Female | | Ü | • |
| Strongly agree | 7 | 6 | 6 |
| Agree | | 45 | 41 |
| Do not know | | 3 | 5 |
| Disagree | | 44 | 44 |
| | | 2 | 44 |
| Strongly disagree | 3 | 2 | 4 |
| Less than high school graduate | 0 | 44 | 7 |
| Strongly agree | | 11 | 7 |
| Agree | | 50 | 54 |
| Do not know | | 5 | 5 |
| Disagree | | 32 | 29 |
| Strongly disagree | 5 | 2 | 6 |
| High school graduate | | | |
| Strongly agree | | 6 | 8 |
| Agree | 37 | 39 | 36 |
| Do not know | 4 | 3 | 3 |
| Disagree | 48 | 50 | 48 |
| Strongly disagree | 4 | 2 | 5 |
| Baccalaureate and higher | | | |
| Strongly agree | 3 | 2 | 4 |
| Agree | 29 | 27 | 25 |
| Do not know | 5 | 4 | 4 |
| Disagree | 59 | 61 | 60 |
| Strongly disagree | 4 | 6 | 6 |
| Attentive public to science and technology ^a | | | |
| Strongly agree | 6 | 8 | 4 |
| Agree | | 28 | 30 |
| Do not know | | 3 | 6 |
| Disagree | | 58 | 52 |
| Strongly disagree | | 3 | 8 |
| Sample size (number) | | <u>_</u> | - 0 |
| <u> </u> | 0.000 | 1 000 | 4 57 4 |
| All adults | | 1,882 | 1,574 |
| Male | | 900 | 751 |
| Female | , | 982 | 823 |
| Less than high school graduate | | 403 | 116 |
| High school graduate | , | 1,111 | 834 |
| Baccalaureate and higher | 392 | 368 | 614 |
| Attentive public to science and technology | 288 | 216 | 195 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following question: People would do better by living a simpler life without so much technology. Do you strongly agree, agree, disagree, or strongly disagree?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

A7-16 Appendix Tables

Appendix table 7-15. Belief that technological discoveries will destroy the Earth: 1997, 1999, and 2001

| Characteristic | 1997 | 1999 | 2001 |
|---|---------|-------|-------|
| Percent | | | |
| II adults | | | |
| Strongly agree | 4 | 4 | 4 |
| Agree | 22 | 27 | 25 |
| Do not know | 6 | 5 | 4 |
| Disagree | 56 | 55 | 56 |
| Strongly disagree | 12 | 9 | 11 |
| Male | | | |
| Strongly agree | 5 | 5 | 4 |
| Agree | 21 | 24 | 23 |
| Do not know | 6 | 4 | 3 |
| Disagree | 53 | 56 | 57 |
| Strongly disagree | 15 | 11 | 13 |
| Female | 10 | | 10 |
| Strongly agree | 4 | 4 | 4 |
| Agree | 23 | 29 | 26 |
| Do not know | 7 | 6 | 5 |
| | 7 57 | 53 | 55 |
| Disagree | 9 | | 9 |
| Strongly disagree | 9 | 7 | 9 |
| Less than high school graduate | - | 0 | - |
| Strongly agree | 7 | 8 | 7 |
| Agree | 26 | 35 | 43 |
| Do not know | 7 | 6 | 5 |
| Disagree | 48 | 48 | 43 |
| Strongly disagree | 12 | 3 | 3 |
| High school graduate | | | |
| Strongly agree | 4 | 4 | 4 |
| Agree | 24 | 27 | 24 |
| Do not know | 7 | 5 | 4 |
| Disagree | 56 | 56 | 57 |
| Strongly disagree | 9 | 8 | 11 |
| Baccalaureate and higher | | | |
| Strongly agree | 2 | 2 | 1 |
| Agree | 14 | 18 | 13 |
| Do not know | 4 | 5 | 5 |
| Disagree | 61 | 57 | 63 |
| Strongly disagree | 19 | 18 | 18 |
| Attentive public to science and technology ^a | | | |
| Strongly agree | 4 | 8 | 3 |
| Agree | 11 | 18 | 23 |
| Do not know | 6 | 3 | 3 |
| Disagree | 60 | 56 | 53 |
| <u>o</u> | 19 | 15 | 19 |
| Strongly disagree | | 15 | 19 |
| Il adults | 2,000 | 1,882 | 1,574 |
| | , | , | , |
| Male | 930 | 900 | 751 |
| Female | 1,070 | 982 | 823 |
| Less than high school graduate | 420 | 403 | 116 |
| High school graduate | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 392 | 368 | 614 |
| Attentive public to science and technology | 288 | 216 | 195 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following question: Technological discoveries will eventually destroy the Earth. Do you strongly agree, agree, disagree, or strongly disagree?

SOURCE: National Science Foundation, Division of Science Resource Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-16. Public assessment that technological development creates an artificial and inhuman way of living: 1997, 1999, and 2001

| Characteristic | 1997 | 1999 | 2001 |
|---|------------------|---------|-------|
| P | ercentages | | |
| All adults | | | |
| Strongly agree | 2 | 2 | 3 |
| Agree | | 29 | 27 |
| Do not know | 6 | 6 | 5 |
| Disagree | 58 | 58 | 57 |
| Strongly disagree | | 5 | 8 |
| Male | | | |
| Strongly agree | 3 | 2 | 2 |
| Agree | | 26 | 30 |
| Do not know | | 5 | 4 |
| Disagree | | 61 | 54 |
| Strongly disagree | | 6 | 9 |
| Female | | 9 | Ü |
| Strongly agree | 2 | 3 | 3 |
| Agree | | 31 | 25 |
| Do not know | | 7 | 6 |
| Disagree | | , 56 | 60 |
| S . | | 4 | 6 |
| Strongly disagree | б | 4 | 0 |
| Less than high school graduate | 0 | _ | 0 |
| Strongly agree | | 5 | 2 |
| Agree | | 40 | 44 |
| Do not know | | 13 | 8 |
| Disagree | | 40 | 43 |
| Strongly disagree | 8 | 2 | 4 |
| High school graduate | | | |
| Strongly agree | | 2 | 4 |
| Agree | | 28 | 26 |
| Do not know | 6 | 5 | 6 |
| Disagree | 60 | 61 | 59 |
| Strongly disagree | 4 | 4 | 6 |
| Baccalaureate and higher | | | |
| Strongly agree | 1 | 1 | 1 |
| Agree | 16 | 18 | 18 |
| Do not know | 3 | 2 | 2 |
| Disagree | 68 | 66 | 64 |
| Strongly disagree | 12 | 13 | 15 |
| Attentive public to science and technology ^a | | | |
| Strongly agree | 3 | 4 | 4 |
| Agree | 19 | 22 | 24 |
| Do not know | | 2 | 2 |
| Disagree | | 64 | 57 |
| Strongly disagree | | 9 | 14 |
| - | le size (number) | | |
| All adults | · , | 1,882 | 1,574 |
| Male | · · | 900 | 751 |
| Female | | 982 | 823 |
| Less than high school graduate | | 403 | 116 |
| 8 9 | | | 834 |
| High school graduate | | 1,111 | |
| Baccalaureate or higher | | 368 | 614 |
| Attentive public to science and technology | 288 | 216 | 195 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following question: Technological development creates an artificial and inhuman way of living. Do you strongly agree, agree, disagree, or strongly disagree?

SOURCES: National Science Foundation, Division of Science Resource Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

A7-18 Appendix Tables

Appendix table 7-17. **General attitudes toward science and technology: 1999 and 2001**(Means)

| | | 1999 | | | 2001 | |
|--|----------------|----------------|------|----------------|----------------|------|
| Characteristic | P ^a | R ^b | P/R | P ^a | R ^b | P/R |
| All adults | 66 | 45 | 1.46 | 60 | 47 | 1.30 |
| Male | 66 | 44 | 1.50 | 61 | 45 | 1.36 |
| Female | 64 | 48 | 1.35 | 57 | 48 | 1.18 |
| Formal education | | | | | | |
| Less than high school | 63 | 51 | 1.23 | 57 | 54 | 1.06 |
| High school graduate | 65 | 46 | 1.40 | 60 | 47 | 1.28 |
| Baccalaureate | 68 | 39 | 1.74 | 63 | 40 | 1.55 |
| Graduate/professional | 69 | 38 | 1.80 | 65 | 39 | 1.65 |
| Science/mathematics education ^c | | | | | | |
| Low | 63 | 49 | 1.29 | 59 | 50 | 1.18 |
| Middle | 66 | 44 | 1.50 | 61 | 45 | 1.36 |
| High | 69 | 38 | 1.80 | 64 | 40 | 1.60 |
| Attentiveness to science | | | | | | |
| and technology ^d | | | | | | |
| Attentive public | 69 | 40 | 1.72 | 65 | 41 | 1.58 |
| Interested public | 67 | 44 | 1.52 | 62 | 45 | 1.37 |
| Residual public | 62 | 49 | 1.26 | 58 | 49 | 1.17 |

P = promise of science and technology; R = reservations about science and technology; P/R = ratio of Promise Index to Reservation Index.

I would like to read you some statements like those you might find in a newspaper or magazine article. For each statement, please tell me if you generally agree or disagree. If you feel especially strongly about a statement, please tell me that you strongly agree or disagree.

- —Science and technology are making our lives healthier, easier, and more comfortable.
- -Most scientists want to work on things that will make life better for the average person.
- -With the application of science and new technology, work will become more interesting.
- —Because of science and technology, there will be more opportunities for the next generation.

I would like to read you some statements like those you might find in a newspaper or magazine article. For each statement, please tell me if you generally agree or disagree. If you feel especially strongly about a statement, please tell me that you strongly agree or strongly disagree.

- -We depend too much on science and not enough on faith.
- —It is not important for me to know about science in my daily life.
- —Science makes our way of life change too fast.

^cRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/mathematics courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^dTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and is a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: The Index of Scientific Promise and the Index of Scientific Reservation are factor scores converted to a 0–100 scale. A factor analysis verified the existence of a two-factor structure. The lowest possible factor score (strong disagreement with all of the items) was set to 0, and the highest possible factor score (strong agreement with all of the items) was set to 100. All factor scores between the highest and the lowest were placed on the 0–100 scale accordingly.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

^aThe Index of Scientific Promise includes responses to the following statements:

^bThe Index of Scientific Reservation includes responses to the following statements:

| Characteristic | 1979 | 1981 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|--|------|------|--------|------|------|------|------|------|------|------|
| | | Р | ercent | | | | | | | |
| All adults | | | | | | | | | | |
| Benefits strongly outweigh harmful results | 46 | 42 | 44 | 57 | 47 | 42 | 43 | 47 | 47 | 47 |
| Benefits slightly outweigh harmful results | 24 | 28 | 24 | 25 | 25 | 31 | 29 | 28 | 27 | 25 |
| Benefits equal harmful results | 19 | 13 | 13 | 5 | 15 | 11 | 16 | 13 | 11 | 19 |
| Harmful results slightly outweigh benefits | 7 | 12 | 13 | 9 | 10 | 12 | 10 | 8 | 10 | 7 |
| Harmful results strongly outweigh benefits | 4 | 5 | 6 | 4 | 3 | 4 | 3 | 4 | 5 | 3 |
| Male | | | | | | | | | | |
| Benefits strongly outweigh harmful results | 51 | 48 | 48 | 59 | 54 | 45 | 47 | 52 | 50 | 49 |
| Benefits slightly outweigh harmful results | 23 | 27 | 23 | 25 | 24 | 30 | 28 | 27 | 27 | 27 |
| Benefits equal harmful results | 16 | 11 | 10 | 5 | 9 | 9 | 13 | 10 | 9 | 15 |
| Harmful results slightly outweigh benefits | 7 | 10 | 13 | 7 | 9 | 11 | 9 | 7 | 10 | 7 |
| Harmful results strongly outweigh benefits | 3 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 2 |
| Female | | | | | | | | | | |
| Benefits strongly outweigh harmful results | 42 | 37 | 40 | 55 | 40 | 40 | 39 | 42 | 45 | 44 |
| Benefits slightly outweigh harmful results | 25 | 28 | 26 | 25 | 26 | 31 | 30 | 29 | 28 | 23 |
| Benefits equal harmful results | 23 | 16 | 14 | 6 | 20 | 13 | 19 | 15 | 12 | 22 |
| Harmful results slightly outweigh benefits | 6 | 14 | 14 | 10 | 11 | 12 | 10 | 10 | 10 | 8 |
| Harmful results strongly outweigh benefits | 4 | 5 | 6 | 4 | 3 | 4 | 3 | 4 | 5 | 3 |
| Less than high school graduate | | | | | | | | | | |
| Benefits strongly outweigh harmful results | 26 | 26 | 20 | 37 | 24 | 24 | 18 | 30 | 25 | 28 |
| Benefits slightly outweigh harmful results | 25 | 23 | 21 | 30 | 25 | 33 | 30 | 28 | 25 | 27 |
| Benefits equal harmful results | 32 | 25 | 26 | 9 | 30 | 17 | 34 | 21 | 18 | 26 |
| Harmful results slightly outweigh benefits | 12 | 18 | 20 | 17 | 17 | 20 | 14 | 18 | 22 | 13 |
| Harmful results strongly outweigh benefits | 5 | 9 | 13 | 7 | 4 | 7 | 3 | 3 | 10 | 6 |
| High school graduate | | | | | | | | | | |
| Benefits strongly outweigh harmful results | 50 | 43 | 47 | 59 | 49 | 41 | 44 | 46 | 47 | 45 |
| Benefits slightly outweigh harmful results | 26 | 31 | 26 | 25 | 27 | 32 | 30 | 30 | 31 | 25 |
| Benefits equal harmful results | 16 | 10 | 10 | 5 | 11 | 10 | 13 | 13 | 10 | 20 |
| Harmful results slightly outweigh benefits | 5 | 12 | 13 | 7 | 10 | 12 | 10 | 6 | 8 | 8 |
| Harmful results strongly outweigh benefits | 3 | 4 | 4 | 4 | 3 | 5 | 3 | 5 | 4 | 2 |
| Baccalaureate and higher | _ | - | - | - | | | | - | • | _ |
| Benefits strongly outweigh harmful results | 69 | 64 | 67 | 80 | 72 | 66 | 67 | 67 | 71 | 64 |
| Benefits slightly outweigh harmful results | 18 | 22 | 23 | 16 | 18 | 22 | 23 | 23 | 19 | 23 |
| Benefits equal harmful results | 8 | 7 | 2 | 1 | 6 | 8 | 6 | 6 | 5 | 9 |
| Harmful results slightly outweigh benefits | 2 | 4 | 6 | 2 | 2 | 3 | 3 | 3 | 4 | 2 |
| Harmful results strongly outweigh benefits | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 |
| Attentive public to science and technology | Ü | _ | _ | • | _ | _ | | • | • | _ |
| Benefits strongly outweigh harmful results | 67 | 63 | 59 | 62 | 61 | 48 | 64 | 64 | 61 | 55 |
| Benefits slightly outweigh harmful results | 16 | 20 | 17 | 23 | 19 | 27 | 21 | 19 | 21 | 20 |
| Benefits equal harmful results | 8 | 5 | 7 | 6 | 10 | 12 | 8 | 6 | 5 | 13 |
| Harmful results slightly outweigh benefits | 4 | 8 | 13 | 6 | 6 | 9 | 3 | 8 | 11 | 9 |
| Harmful results strongly outweigh benefits | 5 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 2 | 4 |

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 7-18. Public assessment of general scientific research: 1979–2001

| Characteristic | 1979 | 1981 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 | | |
|---|-------|-------|-------|------|-------|------|-------|-------|-------|-------|--|--|
| Sample size (number) | | | | | | | | | | | | |
| All adults | 1,635 | 1,536 | 2,005 | 975 | 2,033 | 997 | 2,006 | 2,000 | 1,882 | 1,574 | | |
| Male | 773 | 724 | 950 | 475 | 964 | 464 | 953 | 930 | 900 | 751 | | |
| Female | 862 | 812 | 1,054 | 500 | 1,070 | 533 | 1,053 | 1,070 | 982 | 823 | | |
| Less than high school graduate | 465 | 385 | 507 | 259 | 495 | 215 | 418 | 420 | 403 | 116 | | |
| High school graduate | 932 | 886 | 1,147 | 546 | 1,202 | 579 | 1,196 | 1,188 | 1,111 | 834 | | |
| Baccalaureate and higher | 238 | 264 | 349 | 170 | 336 | 203 | 392 | 392 | 368 | 614 | | |
| Attentive public to science and technology ^a | 154 | 381 | 235 | 116 | 229 | 94 | 195 | 288 | 216 | 195 | | |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and be a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not total 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are for the following statements:

- -People have frequently noted that scientific research has produced both beneficial and harmful consequences.
- -Would you say that, on balance, the benefits of scientific research have outweighed the harmful results, or have the harmful results of scientific research been greater than its benefits?
- -Would you say that the balance has been strongly in favor of beneficial results or only slightly?
- -Would you say that the balance has been strongly in favor of harmful results or only slightly?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years. See figure 7-6 in Volume 1.

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Appendix table 7-19. **Public assessment of funding of scientific research by the Federal Government: 1985–2001**(Percentages)

| Characteristic | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|---|------|--------|------|------|------|------|------|----------|
| All adults | | | | | | | | |
| Strongly agree | 9 | 16 | 17 | 14 | 19 | 22 | 21 | 19 |
| Agree | 70 | 65 | 62 | 63 | 61 | 57 | 61 | 62 |
| Do not know | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| Disagree | 16 | 14 | 15 | 18 | 17 | 15 | 13 | 15 |
| Strongly disagree | 0 | 1 | 2 | 2 | 2 | 3 | 2 | 1 |
| Male | | | | | | | | |
| Strongly agree | 11 | 20 | 23 | 17 | 19 | 24 | 24 | 23 |
| Agree | 71 | 63 | 60 | 62 | 60 | 54 | 60 | 63 |
| Do not know | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| Disagree | 15 | 13 | 13 | 17 | 18 | 16 | 12 | 11 |
| Strongly disagree | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 2 |
| Female | | | | | | | | |
| Strongly agree | 8 | 11 | 13 | 11 | 15 | 20 | 18 | 16 |
| Agree | 68 | 68 | 65 | 64 | 62 | 59 | 62 | 61 |
| Do not know | 8 | 6 | 5 | 4 | 5 | 4 | 4 | 5 |
| Disagree | 16 | 14 | 16 | 19 | 16 | 15 | 14 | 18 |
| Strongly disagree | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 1 |
| Less than high school graduate | | | | | | | | |
| Strongly agree | 5 | 6 | 10 | 10 | 8 | 20 | 17 | 13 |
| Agree | 65 | 66 | 59 | 61 | 59 | 50 | 55 | 66 |
| Do not know | 9 | 7 | 8 | 5 | 7 | 5 | 7 | 5 |
| Disagree | 21 | 18 | 20 | 21 | 24 | 22 | 18 | 16 |
| Strongly disagree | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 0 |
| High school graduate | | | | | | | | |
| Strongly agree | 8 | 17 | 18 | 12 | 16 | 19 | 18 | 18 |
| Agree | 72 | 66 | 65 | 64 | 63 | 60 | 66 | 60 |
| Do not know | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 3 |
| Disagree | 15 | 13 | 14 | 19 | 17 | 15 | 12 | 17 |
| Strongly disagree | 1 | 1 | 1 | 2 | 1 | 3 | 2 | 1 |
| Baccalaureate | • | • | • | _ | • | • | _ | • |
| Strongly agree | 19 | 26 | 27 | 22 | 24 | 31 | 34 | 23 |
| Agree | 68 | 62 | 60 | 64 | 62 | 56 | 53 | 68 |
| Do not know | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 |
| Disagree | 10 | 8 | 10 | 12 | 11 | 10 | 10 | 8 |
| Strongly disagree | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 1 |
| Graduate degree | • | • | • | Ü | • | • | _ | • |
| Strongly agree | 20 | 29 | 31 | 26 | 43 | 40 | 40 | 32 |
| Agree | 70 | 61 | 58 | 53 | 46 | 51 | 51 | 56 |
| Do not know | 2 | 2 | 4 | 5 | 2 | 2 | 1 | 3 |
| Disagree | 8 | 7 | 6 | 14 | 8 | 5 | 8 | 8 |
| Strongly disagree | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 1 |
| Attentive public to science and technology ^a | U | ' | ' | 2 | ' | 2 | U | ' |
| Strongly agree | 17 | 27 | 35 | 28 | 35 | 46 | 35 | 35 |
| Agree | 76 | 62 | 50 | 61 | 48 | 42 | 52 | 49 |
| Do not know | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 3 |
| | 6 | 8 | 10 | 9 | 14 | 7 | 9 | 12 |
| Disagree | 1 | o 1 | 10 | 1 | 2 | 4 | 4 | 3 |
| Strongly disagree | ı | I | ı | ı | | 4 | 4 | <u> </u> |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue area, report that he or she is "very well informed" about it, and be a regular reader of a daily newspaper or relevant national magazine. Citizens who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue area. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Responses are to the following question: Even if it brings no immediate benefits, scientific research that advances the frontiers of knowledge is necessary and should be supported by the Federal Government—do you strongly agree, agree, disagree, or strongly disagree?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

A7-22 Appendix Tables

Appendix table 7-20.

Support for Federal funding of basic scientific research^a, by level of Index of Scientific Promise, Index of Scientific Reservation, and by education: 2001 (Percentages)

| Level of index and level of education | Disagree | Unsure | Agree | Sample size (number) |
|---------------------------------------|------------|----------------------------------|-------|----------------------|
| | Index of S | cientific Promise ^b | | |
| All adults | 16 | 3 | 81 | 1,569 |
| Low | 29 | 4 | 68 | 233 |
| Moderate | 15 | 3 | 82 | 1,107 |
| High | 6 | 1 | 93 | 229 |
| Less than high school graduate | 16 | 5 | 79 | 116 |
| Low | 29 | 6 | 65 | 20 |
| Moderate | 15 | 6 | 79 | 82 |
| High | 0 | 0 | 100 | 14 |
| High school graduate | 18 | 3 | 78 | 833 |
| Low | 33 | 3 | 64 | 140 |
| Moderate | 17 | 4 | 79 | 589 |
| High | 5 | 0 | 95 | 104 |
| Baccalaureate and higher | | 1 | 90 | 610 |
| Low | | 2 | 85 | 71 |
| Moderate | 8 | 1 | 91 | 430 |
| High | 9 | 5 | 86 | 109 |
| | | entific Reservation ^c | | |
| All adults | 16 | 3 | 81 | 1,574 |
| Low | 7 | 1 | 91 | 197 |
| Moderate | 13 | 3 | 84 | 984 |
| High | 25 | 4 | 71 | 393 |
| Less than high school graduate | 16 | 5 | 79 | 116 |
| Low | 0 | 0 | 100 | 9 |
| Moderate | 14 | 5 | 81 | 49 |
| High | 20 | 6 | 74 | 58 |
| High school graduate | 18 | 3 | 79 | 834 |
| Low | 8 | 0 | 92 | 68 |
| Moderate | 14 | 3 | 83 | 511 |
| High | 30 | 4 | 67 | 255 |
| Baccalaureate and higher | 9 | 1 | 90 | 614 |
| Low | | 4 | 88 | 119 |
| Moderate | 9 | 1 | 90 | 416 |
| High | 9 | 0 | 91 | 79 |

Low = 0-49; moderate = 50-74; high = 75-100

Now I would like to read you some statements like those you might find in a newspaper or magazine article. For each statement, please tell me if you generally agree or disagree. If you feel especially strongly about a statement, please tell me that you strongly agree or disagree.

- —Science and technology are making our lives healthier, easier, and more comfortable.
- -Most scientists want to work on things that will make life better for the average person.
- -With the application of science and new technology, work will become more interesting.
- —Because of science and technology, there will be more opportunities for the next generation.

Now I would like to read you some statements like those you might find in a newspaper or magazine article. For each statement, please tell me if you generally agree or disagree. If you feel especially strongly about a statement, please tell me that you strongly agree or strongly disagree.

- —We depend too much on science and not enough on faith.
- —It is not important for me to know about science in my daily life.
- —Science makes our way of life change too fast.

NOTES: The Index of Scientific Promise and Index of Scientific Reservation are factor scores converted to a 0–100 scale. Factor analysis verified the existence of a two-factor structure. The lowest possible factor score (strong disagreement with all of the items) was set to 0, and the highest possible factor score (strong agreement with all of the items) was set to 100. All factor scores between the highest and the lowest were placed on the 0–100 scale accordingly. Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

^aResponses are to the following question: Even if it brings no immediate benefits, scientific research that advances the frontiers of knowledge is necessary and should be supported by the Federal Government—do you strongly agree, agree, disagree, or strongly disagree?

^bThe Index of Scientific Promise includes responses to the following statements:

^cThe Index of Scientific Reservation includes responses to the following statements:

Appendix table 7-21. **Public preferences for level of Federal Government spending on selected policy issues: 1981–2001** (Percentages)

| Policy issue | 1981 | 1983 | 1985 | 1988 | 1990 | 1992 | 1997 | 1999 | 2001 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Exploring space | | | | | | | | | |
| Too little | 18 | 17 | 9 | 17 | 9 | 12 | 14 | 15 | 11 |
| Too much | 43 | 39 | 45 | 42 | 52 | 50 | 45 | 46 | 48 |
| Reducing pollution | | | | | | | | | |
| Too little | 52 | 54 | 69 | 76 | 76 | 72 | 65 | 65 | 63 |
| Too much | 14 | 11 | 6 | 4 | 5 | 7 | 8 | 7 | 6 |
| Improving health care | | | | | | | | | |
| Too little | 61 | _ | 68 | 68 | 75 | 79 | 68 | 71 | 70 |
| Too much | 6 | _ | 3 | 2 | 3 | 5 | 7 | 5 | 4 |
| Supporting scientific research | | | | | | | | | |
| Too little | 31 | _ | 29 | 34 | 30 | 34 | 34 | 37 | 36 |
| Too much | 18 | _ | 18 | 15 | 16 | 19 | 14 | 14 | 14 |
| Improving education | | | | | | | | | |
| Too little | 62 | 71 | 73 | 76 | 77 | 81 | 76 | 75 | 76 |
| Too much | 6 | 5 | 3 | 4 | 4 | 4 | 6 | 6 | 5 |
| Helping older people | | | | | | | | | |
| Too little | 73 | _ | 72 | 76 | 75 | 73 | 66 | 71 | 73 |
| Too much | 3 | _ | 3 | 2 | 2 | 4 | 5 | 4 | 3 |
| Improving national defense ^a | | | | | | | | | |
| Too little | 33 | 19 | 11 | 11 | 15 | 15 | 23 | 31 | 29 |
| Too much | 26 | 47 | 50 | 53 | 40 | 40 | 32 | 25 | 25 |
| Helping low-income persons | | | | | | | | | |
| Too little | 45 | _ | 54 | 55 | 57 | 56 | 44 | 49 | 53 |
| Too much | 24 | _ | 13 | 12 | 15 | 17 | 23 | 19 | 15 |
| Sample size (number) | 1,659 | 1,631 | 2,005 | 2,041 | 2,033 | 2,001 | 2,000 | 1,882 | 1,574 |

^{- =} Not asked

NOTES: Responses are to the following statement: "We are faced with many problems in this country. I'm going to name some of these problems, and for each one, I'd like you to tell me if you think that the Government is spending too little money on it, about the right amount, or too much." Not shown are responses "about the right amount" and "don't know" which is why percentages do not add to 100 percent.

SOURCE: National Science Foundation, Division of Science Resource Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

^aThe "improving national defense" question was asked on a split ballot in 1988; therefore, the number of responses was only 1,013.

| Characteristic | Exploring space | Reducing pollution | Improving health care | Supporting scientific research | Improving education | Helping older people | Improving national defense | Helping low-income people |
|---|-----------------|--------------------|-----------------------|--------------------------------|---------------------|-------------------------|----------------------------------|---------------------------------|
| All adults | | | | | | | | |
| Too little | 11 | 63 | 70 | 36 | 76 | 73 | 29 | 53 |
| About right | 38 | 28 | 24 | 44 | 17 | 21 | 41 | 30 |
| Too much | | 6 | 4 | 14 | 5 | 3 | 25 | 15 |
| Do not know | | 3 | 2 | 7 | 1 | 2 | 4 | 2 |
| Male | | | | | | | | |
| Too little | 16 | 62 | 63 | 40 | 72 | 68 | 33 | 51 |
| About right | | 29 | 31 | 44 | 20 | 25 | 40 | 31 |
| Too much | | 7 | 5 | 12 | 7 | 5 | 25 | 16 |
| Do not know | | 1 | 1 | 5 | 1 | 1 | 2 | 2 |
| Female | | | | | | | | |
| Too little | 7 | 64 | 77 | 33 | 80 | 78 | 26 | 55 |
| About right | | 27 | 18 | 44 | 15 | 18 | 42 | 28 |
| Too much | | 4 | 3 | 16 | 4 | 1 | 26 | 14 |
| Do not know | | 4 | 2 | 8 | 1 | 3 | 6 | 2 |
| Less than high school graduate | | | _ | · · | • | · · | · · | _ |
| Too little | 8 | 61 | 66 | 35 | 69 | 81 | 27 | 68 |
| About right | | 28 | 29 | 34 | 21 | 13 | 37 | 18 |
| Too much | | 9 | 4 | 26 | 8 | 4 | 29 | 11 |
| Do not know | | 2 | 1 | 5 | 2 | 2 | 7 | 3 |
| High school graduate | | - | | Ü | _ | _ | • | · · |
| Too little | 11 | 64 | 73 | 34 | 79 | 76 | 32 | 54 |
| About right | | 28 | 21 | 46 | 16 | 20 | 42 | 29 |
| Too much | | 5 | 4 | 14 | 4 | 3 | 22 | 16 |
| Do not know | | 2 | 2 | 6 | 1 | 1 | 4 | 1 |
| Baccalaureate and higher | 2 | _ | - | · · | • | • | | , |
| Too little | 16 | 63 | 64 | 42 | 74 | 62 | 24 | 41 |
| About right | | 29 | 28 | 45 | 18 | 31 | 43 | 39 |
| Too much | | 5 | 5 | 5 | 7 | 3 | 31 | 17 |
| Do not know | | 3 | 3 | 8 | 1 | 3 | 2 | 3 |
| Attentive public to science and technology ^a | | J | J | J | | 0 | _ | 0 |
| Too little | 28 | 70 | 66 | 52 | 74 | 69 | 33 | 59 |
| About right | | 26 | 31 | 37 | 16 | 26 | 37 | 23 |
| Too much | | 3 | 2 | 9 | 7 | 3 | 29 | 23 17 |
| | | 1 | 1 | 2 | 3 | 3 | 1 | 17 |
| Do not know | 1 | į. | I | 2 | 3 | 3 | I | I |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology.

NOTE: Responses are to the following statement: We are faced with many problems in this country. I'm going to name some of these problems, and for each one, I'd like you to tell me if you think that the government is spending too little money on it, about the right amount, or too much.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-23. Public assessment of genetic engineering: 1985–2001

| Characteristic | 1985 | 1990 | 1995 | 1997 | 1999 | 2001 |
|--|-----------|----------|----------|----------|----------|----------|
| | Perc | ent | | | | |
| All adults | | | | | | |
| Benefits strongly outweigh harmful results | 23 | 20 | 21 | 19 | 20 | 19 |
| Benefits slightly outweigh harmful results | 26 | 27 | 22 | 23 | 24 | 21 |
| Benefits equal harmful results | 12 | 16 | 22 | 22 | 18 | 28 |
| Harmful results slightly outweigh benefits | 14 | 19 | 23 | 20 | 22 | 19 |
| Harmful results strongly outweigh benefits | 25 | 18 | 12 | 16 | 16 | 14 |
| Male | | | | | | |
| Benefits strongly outweigh harmful results | | 21 | 24 | 23 | 24 | 23 |
| Benefits slightly outweigh harmful results | | 31 | 22 | 26 | 26 | 22 |
| Benefits equal harmful results | | 14 | 21 | 20 | 17 | 27 |
| Harmful results slightly outweigh benefits | | 18 | 22 | 17 | 21 | 16 |
| Harmful results strongly outweigh benefits | 22 | 16 | 10 | 14 | 12 | 12 |
| Female | | | | | | |
| Benefits strongly outweigh harmful results | | 19 | 18 | 16 | 16 | 14 |
| Benefits slightly outweigh harmful results | | 23 | 22 | 21 | 22 | 20 |
| Benefits equal harmful results | | 17 | 22 | 23 | 20 | 28 |
| Harmful results slightly outweigh benefits | | 21 | 23 | 22 | 22 | 22 |
| Harmful results strongly outweigh benefits | 27 | 20 | 15 | 18 | 20 | 15 |
| Less than high school graduate | 4.0 | 4.0 | 40 | 4.5 | 40 | 4.5 |
| Benefits strongly outweigh harmful results | | 16 | 10 | 15 | 18 | 15 |
| Benefits slightly outweigh harmful results | | 27 | 19 | 18 | 19 | 24 |
| Benefits equal harmful results | 16 | 25 | 30 | 23 | 27 | 27 |
| Harmful results slightly outweigh benefits | 12 | 17 | 29 | 30 | 21 | 20 |
| Harmful results strongly outweigh benefits | 24 | 15 | 13 | 14 | 15 | 13 |
| High school graduate | 0.1 | 10 | 00 | 10 | 10 | 10 |
| Benefits strongly outweigh harmful results | | 19 | 20 | 18 | 18 | 18 |
| Benefits slightly outweigh harmful results | | 27 | 21 21 | 24 21 | 24 | 19 |
| Benefits equal harmful results | | 12 21 | 23 | | 16 | 28 |
| Harmful results slightly outweigh benefits | | 21 | 23 14 | 18 19 | 24 18 | 21 15 |
| Harmful results strongly outweigh benefits Baccalaureate and higher | 21 | ۷۱ | 14 | 19 | 10 | 15 |
| Benefits strongly outweigh harmful results | 33 | 29 | 35 | 27 | 27 | 24 |
| Benefits slightly outweigh harmful results | | 28 | 30 | 28 | 28 | 24 |
| Benefits equal harmful results | 7 | 15 | 16 | 21 | 16 | 27 |
| Harmful results slightly outweigh benefits | | 15 | 14 | 14 | 17 | 15 |
| Harmful results strongly outweigh benefits | 18 | 13 | 6 | 10 | 12 | 10 |
| Attentive public to science and technology ^a | 10 | 10 | Ü | | | .0 |
| Benefits strongly outweigh harmful results | 37 | 32 | 42 | 36 | 33 | 29 |
| Benefits slightly outweigh harmful results | | 30 | 22 | 24 | 31 | 20 |
| Benefits equal harmful results | 9 | 9 | 16 | 13 | 8 | 20 |
| Harmful results slightly outweigh benefits | 12 | 12 | 13 | 16 | 19 | 20 |
| Harmful results strongly outweigh benefits | 14 | 17 | 7 | 11 | 9 | 10 |
| Attentive public to medical research ^a | | | | | | |
| Benefits strongly outweigh harmful results | 29 | 31 | 34 | 27 | 28 | 25 |
| Benefits slightly outweigh harmful results | | 27 | 21 | 25 | 24 | 19 |
| Benefits equal harmful results | 12 | 12 | 17 | 18 | 12 | 27 |
| Harmful results slightly outweigh benefits | 11 | 17 | 18 | 18 | 23 | 20 |
| Harmful results strongly outweigh benefits | 24 | 13 | 9 | 12 | 13 | 9 |
| San | nple size | (number) | | | | |
| All adults | 2 005 | 2,033 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 950 | 964 | 953 | 930 | 900 | 751 |
| Female | | 1,070 | 1,053 | 1,070 | 982 | 823 |
| Less than high school graduate | 507 | 495 | 418 | 420 | 403 | 116 |
| High school graduate | | 1,179 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 349 | 359 | 392 | 392 | 368 | 614 |
| Attentive public to science and technology ^a | 235 | 229 | 195 | 288 | 216 | 195 |
| Attentive public to medical research ^a | 349 | 337 | 310 | 377 | 301 | 240 |
| - III. III public to modical robodion | 0 10 | | | | | |

See explanatory notes, is any, and SOURCE at end of table

A7-26 | Appendix Tables

Appendix table 7-23.

Public assessment of genetic engineering: 1985–2001

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. In 1985, the question was worded: Some persons have argued that the creation of new life forms through genetic engineering constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, are the risks of genetic engineering greater than the benefits, or are the benefits of genetic engineering research greater than the risks? Would you say that the benefits are substantially greater than the risks, or only slightly greater than the benefits?

-In 1990, the question was worded: Some persons have argued that the creation of new life forms through genetic engineering research constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, are the risks of genetic engineering research greater than its benefits, or are the benefits of genetic engineering research greater than its risks? Would you say that the benefits have substantially exceeded the risks or only slightly exceeded the risks? Would you say that the risks have substantially exceeded the benefits or only slightly exceeded the benefits?

-In 1995, the question was worded: Some persons have argued that the creation of new life forms through genetic engineering research constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, have the benefits of genetic engineering research outweighed the harmful results, or have the harmful results of genetic engineering research been greater than its benefits? Would you say that the balance has been strongly in favor of beneficial results or only slightly? Would you say that the balance has been strongly in favor of harmful results or only slightly?

-In 1997 and 1999, half of the respondents were asked the question used in 1995. The other half were asked: Some persons have argued that the modification of existing life forms through genetic engineering research constitutes a serious risk, while other persons have argued that this research may yield major benefits for society. In your opinion, have the benefits of engineering research outweighed the harmful results, or have the harmful results of genetic engineering research been greater than its benefits? Would you say that the balance has been strongly in favor of beneficial results or only slightly? Would you say that the balance has been strongly in favor of harmful results or only slightly? In 2001, all respondents were asked this question.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

See figure 7-8 in Volume 1.

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Appendix table 7-24. **Public assessment of selected biotechnology applications: 2001** (Percentages)

| Characteristic | Food | Genetic | Animal |
|---|------------|---------|---------|
| Characteristic | production | testing | cloning |
| All adults (number = 1,574) | | | |
| Strongly support | | 51 | 15 |
| Moderately support | 47 | 38 | 32 |
| No opinion | 2 | * | 2 |
| Moderately oppose | 21 | 6 | 21 |
| Strongly oppose | 15 | 3 | 27 |
| Do not know | 2 | 2 | 3 |
| Male (number = 751) | | | |
| Strongly support | 19 | 52 | 19 |
| Moderately support | | 39 | 38 |
| No opinion | | * | 1 |
| Moderately oppose | | 6 | 18 |
| Strongly oppose | | 2 | 22 |
| Do not know | | 1 | 2 |
| Female (number = 823) | | 1 | _ |
| Strongly support | 9 | 50 | 12 |
| | | 38 | 27 |
| Moderately support | _ | | |
| No opinion | | 1 | 3 |
| Moderately oppose | | 5 | 23 |
| Strongly oppose | | 3 | 32 |
| Do not know | 3 | 3 | 3 |
| Less than high school graduate (number = 116) | | | |
| Strongly support | | 48 | 26 |
| Moderately support | | 33 | 28 |
| No opinion | 1 | 0 | 1 |
| Moderately oppose | 18 | 8 | 16 |
| Strongly oppose | 20 | 6 | 27 |
| Do not know | * | 5 | 3 |
| High school graduate (number= 834) | | | |
| Strongly support | 12 | 50 | 12 |
| Moderately support | 46 | 40 | 32 |
| No opinion | 2 | * | 1 |
| Moderately oppose | | 6 | 21 |
| Strongly oppose | | 3 | 31 |
| Do not know | | 2 | 3 |
| Baccalaureate and higher (number = 614) | | _ | · · |
| Strongly support | 19 | 55 | 16 |
| Moderately support | | 38 | 37 |
| No opinion | _ | 1 | 3 |
| Moderately oppose | | 4 | 24 |
| | | 2 | 19 |
| Strongly oppose | | 1 | 3 |
| Do not know | 1 | I | 3 |
| Attentive public to science and technology (number = 195) | 00 | 00 | 04 |
| Strongly support | | 62 | 21 |
| Moderately support | | 30 | 36 |
| No opinion | | * | 2 |
| Moderately oppose | _ | 3 | 18 |
| Strongly oppose | | 3 | 20 |
| Do not know | 3 | 1 | 3 |

^{* = &}lt;.5

NOTES: Percentages may not add to 100 because of rounding. Responses are to the following statements:

As you may know, some food products and medicines are being developed using new scientific techniques. The general area is called *biotechnology* and includes tools such as genetic engineering and genetic modification of food. I'm going to name three types of biotechnology applications. I'd like you to tell me if you strongly support, moderately support, moderately oppose, or strongly oppose these uses of biotechnology.

- -Using modern biotechnology in the production of foods, for example, to make them higher in protein, keep longer, or taste better.
- -Using genetic testing to detect diseases we might have inherited from our parents, such as cystic fibrosis.
- -Cloning animals such as sheep whose milk can be used to make drugs and vaccines. Overall would you say you strongly support, moderately support, moderately oppose, or strongly oppose this use of biotechnology?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-25. **Public assessment of space exploration: 1985–2001**

| Characteristic | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|--|----------|----------|------------|----------|----------|----------|----------|----------|
| | | Per | cent | | | | | |
| All adults | | | | | | | | |
| Benefits strongly outweigh costs | 27 | 22 | 18 | 17 | 22 | 24 | 24 | 22 |
| Benefits slightly outweigh costs | 27 | 25 | 25 | 26 | 24 | 24 | 25 | 23 |
| Benefits equal costs | 7 | 9 | 9 | 9 | 8 | 10 | 8 | 12 |
| Costs slightly outweigh benefits | 15 | 18 | 17 | 22 | 17 | 17 | 17 | 15 |
| Costs strongly outweigh benefits | 24 | 26 | 31 | 26 | 28 | 25 | 26 | 28 |
| Male | | | | | | | | |
| Benefits strongly outweigh costs | 33 | 28 | 23 | 17 | 28 | 31 | 31 | 28 |
| Benefits slightly outweigh costs | 31 | 27 | 26 | 26 | 25 | 25 | 26 | 22 |
| Benefits equal costs | 6 | 10 | 8 | 9 | 6 | 8 | 5 | 10 |
| Costs slightly outweigh benefits | 12 | 13 | 16 | 22 | 16 | 15 | 15 | 13 |
| Costs strongly outweigh benefits | 18 | 22 | 27 | 26 | 24 | 21 | 23 | 26 |
| Female | 04 | 40 | 4.4 | | 47 | 40 | 40 | 47 |
| Benefits strongly outweigh costs | 21 | 16 | 14 | 11 | 17 | 18 | 19 | 17 |
| Benefits slightly outweigh costs | 24 | 23 | 24 | 25 | 23 | 23 | 24 | 23 |
| Benefits equal costs | 8 | 9 | 10 | 11 | 10 | 12 | 10 | 14 |
| Costs slightly outweigh benefits | 17 | 23 | 17 | 27 | 18 | 18 | 18 | 16 |
| Costs strongly outweigh benefits | 30 | 29 | 35 | 26 | 32 | 29 | 29 | 29 |
| Less than high school graduate | 00 | 10 | 4.5 | 4.4 | 1.1 | 10 | 4.5 | 10 |
| Benefits strongly outweigh costs | 22 | 16 | 15 | 14 | 14 | 18 | 15 | 13 |
| Benefits slightly outweigh costs | 25 | 26 | 20 | 29 | 20 | 21 | 25 | 20 |
| Benefits equal costs | 10 | 9 | 17 | 12 | 13 | 16 | 15 | 10 |
| Costs slightly outweigh benefits | 17 | 21 | 16 | 24 | 21 | 24 | 18 | 19 |
| Costs strongly outweigh benefits | 26 | 29 | 32 | 21 | 31 | 21 | 27 | 37 |
| High school graduate | 06 | 0.1 | 17 | 15 | 00 | 00 | 06 | 00 |
| Benefits strongly outweigh costs | 26 | 21 25 | 17 25 | 15 25 | 23 24 | 23 23 | 26 23 | 22 22 |
| Benefits slightly outweigh costs | 28 6 | 9 | 25 7 | 9 | 6 | 23 9 | 23 5 | 12 |
| Benefits equal costs | | | | | | | | |
| Costs slightly outweigh benefits | 14 26 | 18 27 | 17 34 | 23 28 | 17 30 | 16 29 | 17 29 | 15 28 |
| Costs strongly outweigh benefits Baccalaureate and higher | 20 | 21 | 34 | 20 | 30 | 29 | 29 | 20 |
| | 26 | 22 | 27 | 20 | 20 | 21 | 21 | 20 |
| Benefits strongly outweigh costs Benefits slightly outweigh costs | 36 28 | 33 26 | 27 28 | 22 26 | 32 27 | 31 29 | 31 29 | 30 25 |
| Benefits equal costs | 6 | 10 | 7 | 6 | 8 | 8 | 6 | 14 |
| Costs slightly outweigh benefits | 13 | 15 | 16 | 18 | 14 | 12 | 16 | 11 |
| Costs strongly outweigh benefits | 17 | 16 | 22 | 28 | 20 | 20 | 18 | 19 |
| Attentive public to science and technology ^a | 17 | 10 | 22 | 20 | 20 | 20 | 10 | 10 |
| Benefits strongly outweigh costs | 39 | 38 | 26 | 28 | 32 | 44 | 34 | 35 |
| Benefits slightly outweigh costs | 27 | 28 | 33 | 26 | 25 | 22 | 28 | 29 |
| Benefits equal costs | 7 | 6 | 4 | 11 | 7 | 6 | 2 | 7 |
| Costs slightly outweigh benefits | 13 | 10 | 14 | 20 | 16 | 11 | 17 | 13 |
| Costs strongly outweigh benefits | 14 | 21 | 23 | 15 | 20 | 17 | 19 | 16 |
| Attentive public to space exploration ^a | | _ ' | 20 | 10 | 20 | ., | 10 | .0 |
| Benefits strongly outweigh costs | 49 | 46 | 36 | 38 | 52 | 57 | 41 | 49 |
| Benefits slightly outweigh costs | 25 | 30 | 36 | 44 | 23 | 19 | 26 | 26 |
| Benefits equal costs | 8 | 4 | 3 | 3 | 4 | 6 | 2 | 8 |
| Costs slightly outweigh benefits | 11 | 7 | 11 | 6 | 12 | 10 | 19 | 6 |
| Costs strongly outweigh benefits | 7 | 13 | 14 | 9 | 9 | 8 | 12 | 11 |
| | | | e (number) | | | | | |
| All adults | 2 005 | 2,041 | 2,033 | 1,004 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 950 | 958 | 964 | 486 | 953 | 930 | 900 | 751 |
| Female | | 1,084 | 1,070 | 533 | 1,053 | 1,070 | 982 | 823 |
| Less than high school graduate | 507 | 530 | 495 | 215 | 418 | 420 | 403 | 116 |
| High school graduate | | 1,158 | 1,202 | 623 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 349 | 353 | 336 | 203 | 392 | 392 | 368 | 614 |
| Attentive public to science and technology ^a | 235 | 233 | 229 | 105 | 195 | 288 | 216 | 195 |
| Attentive public to science and technology Attentive public to space exploration ^a | 184 | 163 | 123 | 51 | 99 | 168 | 120 | 99 |
| , attentive public to space exploration | 104 | 100 | 120 | J1 | | 100 | 120 | |

See explanatory notes, if any, and SOURCE at end of table

Appendix table 7-25.

Public assessment of space exploration: 1985–2001

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following questions: Many current issues in science and technology may be viewed as a judgment of relative benefits. Thinking first about the space program, some persons have argued that the costs of the space program may have exceeded its benefits, while other people have argued that the benefits of space exploration have exceeded its costs.

- -In your opinion, have the costs of space exploration exceeded its benefits, or have the benefits of space exploration exceeded its costs?
- -Would you say that the benefits have substantially exceeded the costs, or only slightly exceeded the costs?
- -Would you say that the costs have substantially exceeded the benefits or only slightly exceeded the benefits?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

See figure 7-12 in Volume 1.

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Appendix table 7-26. **Public assessment of use of mice in scientific research: 2001**(Percentages)

| | Strongly | | Do not | | Strongly | Sample size |
|--|----------|-------|--------|----------|----------|-------------|
| Characteristic | agree | Agree | know | Disagree | disagree | (number) |
| All adults | 9 | 59 | 3 | 23 | 7 | 1,574 |
| Male | 12 | 63 | 2 | 18 | 5 | 751 |
| Female | 6 | 55 | 4 | 27 | 8 | 823 |
| Formal education | | | | | | |
| Less than high school | 3 | 58 | 4 | 23 | 12 | 116 |
| High school graduate | 10 | 58 | 3 | 24 | 6 | 834 |
| Baccalaureate degree and higher | 11 | 61 | 2 | 21 | 5 | 614 |
| Science/mathematics education ^a | | | | | | |
| Low | 8 | 57 | 4 | 24 | 7 | 674 |
| Middle | 7 | 61 | 2 | 22 | 8 | 469 |
| High | 13 | 59 | 2 | 21 | 4 | 431 |
| Age (years) | | | | | | |
| 18–24 | 3 | 52 | 2 | 26 | 17 | 154 |
| 25–34 | 9 | 54 | 2 | 29 | 6 | 288 |
| 35–44 | 11 | 59 | 2 | 23 | 5 | 320 |
| 45–64 | 10 | 59 | 4 | 22 | 5 | 557 |
| 65 and older | 8 | 69 | 4 | 16 | 3 | 240 |
| Attentiveness to science and technology ^b | | | | | | |
| Attentive public | 13 | 54 | 4 | 21 | 8 | 195 |
| Interested public | 10 | 61 | 2 | 21 | 6 | 755 |
| Residual public | | 58 | 3 | 26 | 7 | 624 |
| Question order ^c | | | | | | |
| Mice first | 9 | 59 | 4 | 23 | 5 | 787 |
| Dogs and chimps first | 9 | 59 | 2 | 23 | 8 | 787 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/mathematics courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^cHalf the survey respondents were first asked about their attitudes toward the use of mice in scientific research, and then asked about their attitudes toward the use of dogs and chimpanzees in scientific research. The other respondents were asked these questions in the opposite order. See appendix table 7-27.

NOTE: A few respondents did not provide information about their highest level of education. Responses are to the following statement: Scientists should be allowed to do research that causes pain and injury to animals like mice if it produces new information about human health problems. Do you strongly agree, agree, disagree, or strongly disagree?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

Appendix table 7-27. **Public assessment of use of dogs and chimpanzees in scientific research: 1988–2001** (Percentages)

| Characteristic | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|--|------|---------|------|------|------|------|------|
| | | Per | cent | | | | |
| All adults | | | | | | | |
| Strongly agree | 5 | 5 | 9 | 7 | 7 | 7 | 6 |
| Agree | 48 | 45 | 44 | 43 | 39 | 43 | 38 |
| Do not know | 5 | 6 | 5 | 4 | 3 | 3 | 4 |
| Disagree | 28 | 31 | 28 | 33 | 33 | 30 | 35 |
| Strongly disagree | 14 | 13 | 14 | 13 | 18 | 17 | 17 |
| Male | 14 | 10 | 14 | 10 | 10 | 17 | 17 |
| Strongly agree | 7 | 7 | 13 | 10 | 11 | 9 | 9 |
| | 55 | , 55 | 52 | 52 | 47 | 53 | 47 |
| Agree | 5 | 4 | 3 | 3 | 3 | 3 | 47 |
| Do not know | | | 25 | | | 27 | |
| Disagree | 26 | 26 | | 26 | 28 | | 30 |
| Strongly disagree | 7 | 8 | 7 | 9 | 11 | 8 | 10 |
| Female | 4 | 0 | 0 | 4 | - | _ | 0 |
| Strongly agree | 4 | 3 | 6 | 4 | 5 | 5 | 3 |
| Agree | 41 | 36 | 37 | 35 | 32 | 33 | 30 |
| Do not know | 6 | 7 | 6 | 5 | 3 | 4 | 5 |
| Disagree | 30 | 35 | 31 | 40 | 37 | 33 | 39 |
| Strongly disagree | 19 | 19 | 20 | 16 | 23 | 25 | 23 |
| Less than high school graduate | | | | | | | |
| Strongly agree | 3 | 4 | 8 | 7 | 4 | 11 | 3 |
| Agree | 53 | 49 | 47 | 44 | 28 | 44 | 38 |
| Do not know | 6 | 6 | 4 | 5 | 2 | 4 | 3 |
| Disagree | 26 | 30 | 28 | 34 | 43 | 29 | 40 |
| Strongly disagree | 12 | 11 | 13 | 10 | 23 | 12 | 16 |
| High school graduate | | | | | | | |
| Strongly agree | 5 | 5 | 8 | 5 | 8 | 5 | 6 |
| Agree | 44 | 41 | 42 | 41 | 39 | 42 | 38 |
| Do not know | 5 | 6 | 5 | 4 | 4 | 3 | 5 |
| Disagree | 31 | 32 | 30 | 35 | 31 | 31 | 34 |
| Strongly disagree | 15 | 16 | 15 | 15 | 18 | 19 | 17 |
| Baccalaureate and higher | 10 | 10 | 10 | 10 | 10 | 10 | ., |
| Strongly agree | 9 | 6 | 13 | 11 | 10 | 10 | 8 |
| | 52 | 53 | 50 | 48 | 51 | 47 | 40 |
| Agree | 7 | 55 7 | | 46 | 4 | 3 | 40 |
| Do not know | | | 5 | | • | | |
| Disagree | 23 | 26 | 22 | 26 | 26 | 25 | 32 |
| Strongly disagree | 9 | 8 | 10 | 11 | 9 | 15 | 16 |
| Attentive public to science and techno | | _ | 4.0 | 4.5 | 40 | | |
| Strongly agree | 7 | 7 | 10 | 15 | 10 | 9 | 8 |
| Agree | 52 | 43 | 45 | 42 | 36 | 48 | 44 |
| Do not know | 6 | 7 | 3 | 3 | 6 | 2 | 3 |
| Disagree | 21 | 29 | 24 | 25 | 24 | 23 | 31 |
| Strongly disagree | 14 | 14 | 18 | 15 | 24 | 18 | 14 |
| Adults 18–24 years old | | | | | | | |
| Strongly agree | 4 | 3 | 15 | 4 | 6 | 4 | 4 |
| Agree | 43 | 35 | 37 | 35 | 20 | 34 | 38 |
| Do not know | 3 | 4 | 2 | 2 | 4 | 0 | 4 |
| Disagree | 29 | 32 | 26 | 37 | 41 | 27 | 32 |
| Strongly disagree | 21 | 26 | 20 | 22 | 29 | 35 | 22 |
| Adults 25-34 years old | | | | | | | |
| Strongly agree | 5 | 5 | 10 | 8 | 7 | 4 | 5 |
| Agree | 45 | 40 | 40 | 41 | 42 | 48 | 32 |
| Do not know | 5 | 4 | 3 | 4 | 2 | 1 | 3 |
| Disagree | 30 | 35 | 33 | 34 | 33 | 35 | 42 |
| • | 15 | 16 | 14 | 13 | 16 | 12 | 17 |
| Strongly disagree | 10 | 10 | 14 | 10 | 10 | 12 | 17 |

See explanatory notes, if any, and SOURCE at end of table.

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A7-32 Appendix Tables

Appendix table 7-27. **Public assessment of use of dogs and chimpanzees in scientific research: 1988–2001** (Percentages)

| Characteristic 19 | 988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|---------------------------------------|-----|--------|---------------|-------|------|------|-------|
| Adults 35-44 years old | | | | | | | |
| Strongly agree | 5 | 6 | 9 | 8 | 7 | 5 | 6 |
| Agree 4 | 7 | 44 | 41 | 41 | 41 | 45 | 39 |
| | 6 | 6 | 6 | 4 | 4 | 4 | 2 |
| Disagree 2 | 8 | 31 | 30 | 34 | 33 | 30 | 33 |
| Strongly disagree1 | 4 | 13 | 14 | 13 | 15 | 16 | 20 |
| Adults 45-54 years old | | | | | | | |
| Strongly agree | 4 | 4 | 6 | 6 | 7 | 7 | 5 |
| | 0 | 54 | 41 | 43 | 38 | 52 | 35 |
| Do not know | 5 | 4 | 5 | 4 | 5 | 3 | 7 |
| Disagree 2 | 7 | 27 | 31 | 35 | 29 | 22 | 36 |
| Strongly disagree 1 | 4 | 11 | 17 | 12 | 21 | 16 | 17 |
| Adults 55-64 years old | | | | | | | |
| Strongly agree | 5 | 3 | 9 | 10 | 10 | 8 | 8 |
| Agree 5 | 2 | 51 | 47 | 48 | 45 | 44 | 39 |
| Do not know | 6 | 10 | 8 | 4 | 2 | 1 | 4 |
| Disagree 2 | 7 | 29 | 24 | 31 | 29 | 33 | 35 |
| Strongly disagree 1 | 0 | 7 | 12 | 7 | 14 | 14 | 15 |
| Adults 65 and older | | | | | | | |
| Strongly agree | 6 | 6 | 7 | 5 | 8 | 15 | 7 |
| Agree 5 | 3 | 52 | 61 | 53 | 45 | 37 | 48 |
| Do not know | 6 | 9 | 5 | 7 | 4 | 10 | 6 |
| Disagree 2 | 7 | 26 | 21 | 27 | 33 | 28 | 32 |
| Strongly disagree | 8 | 7 | 6 | 8 | 10 | 10 | 7 |
| | ; | Sample | size (number) | | | | |
| All adults | 41 | 2,033 | 2,001 | 2,006 | 996 | 904 | 1,574 |
| Male 9 | 58 | 964 | 950 | 953 | 454 | 455 | 751 |
| Female | 84 | 1,070 | 1,051 | 1,053 | 542 | 449 | 823 |
| · · · · · · · · · · · · · · · · · · · | 30 | 495 | 403 | 418 | 216 | 188 | 116 |
| High school graduate | 58 | 1,202 | 1,202 | 1,196 | 579 | 534 | 834 |
| | 53 | 336 | 306 | 392 | 200 | 182 | 614 |
| Age (years) | | | | | | | |
| 0 0 7 | 18 | 322 | 276 | 275 | 146 | 134 | 154 |
| | 85 | 497 | 459 | 471 | 223 | 198 | 288 |
| | 72 | 366 | 430 | 423 | 199 | 188 | 320 |
| | 64 | 264 | 318 | 308 | 171 | 140 | 309 |
| | 67 | 269 | 191 | 205 | 90 | 98 | 248 |
| 65 and older 3 | 32 | 315 | 326 | 321 | 163 | 145 | 240 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Responses are to the following statement: Scientists should be allowed to do research that causes pain and injury to animals like dogs and chimpanzees if it produces new information about human health problems. Do you strongly agree, agree, disagree, or strongly disagree?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

Appendix table 7-28. **Public belief in global warming: 2001** (Percentages)

| Characteristic 2 | 2001 |
|--|-------|
| All adults (number = 1,574) | |
| Believe | 77 |
| Do not believe | 12 |
| Not sure/refused | 11 |
| Male (number = 751) | |
| Believe | 78 |
| Do not believe | 14 |
| Not sure/refused | 8 |
| Female (number = 823) | |
| Believe | 76 |
| Do not believe | 9 |
| Not sure/refused | 14 |
| Less than high school graduate (number = 116) | |
| Believe | 71 |
| Do not believe | 10 |
| Not sure/refused | 18 |
| High school graduate (number = 834) | |
| Believe | 77 |
| Do not believe | 12 |
| Not sure/refused | 11 |
| Baccalaureate and higher (number = 614) | |
| Believe | 80 |
| Do not believe | |
| Not sure/refused | |
| Attentive public to science and technology ^a (numl 195) | oer = |
| Believe | 82 |
| Do not believe | 12 |
| Not sure/refused | 6 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Percentages may not add to 100 because of rounding. Responses are to the following question: Do you believe the theory that increased carbon dioxide and other gases released into the atmosphere will, if unchecked, lead to global warming and an increase in average temperatures?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

A7-34 | Appendix Tables

Appendix table 7-29. **Public assessment of global warming: 2001** (Percentages)

| Characteristic 2 | 001 |
|---|------|
| All adults (number = 1,574) | |
| Very serious | 53 |
| Somewhat serious | 33 |
| Not a serious problem | |
| Not sure/refused | 4 |
| Male (number = 751) | |
| Very serious | 55 |
| Somewhat serious | 32 |
| Not a serious problem | |
| Not sure/refused | 2 |
| Female (number = 823) | |
| Very serious | 52 |
| Somewhat serious | 34 |
| Not a serious problem | 9 |
| Not sure/refused | 5 |
| Less than high school graduate (number = 116) | |
| Very serious | 51 |
| Somewhat serious | 31 |
| Not a serious problem | 10 |
| Not sure/refused | 8 |
| High school graduate (number = 834) | |
| Very serious | 53 |
| Somewhat serious | 33 |
| Not a serious problem | 11 |
| Not sure/refused | 3 |
| Baccalaureate and higher (number = 614) | |
| Very serious | 56 |
| Somewhat serious | |
| Not a serious problem | 9 |
| Not sure/refused | 2 |
| Attentive public to science and technology ^a (numb | er = |
| 195) | |
| Very serious | |
| Somewhat serious | |
| Not a serious problem | |
| Not sure/refused | 2 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Percentages may not add to 100 because of rounding. Responses are to the following question: Do you think that the possibility of global warming should be treated as a very serious problem, a somewhat serious problem, or not a serious problem?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-30. Public assessment of the quality of science and mathematics education in the United States: 1985–2001

| Characteristic | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|---|-------|---------------|--------|-------|----------|----------|-------|-------|
| | | Percent | | | | | | |
| All adults | | | | | | | | |
| Strongly agree | 14 | 18 | 24 | 24 | 21 | 23 | 21 | 17 |
| Agree | 49 | 50 | 48 | 51 | 48 | 45 | 42 | 51 |
| Do not know | 8 | 7 | 4 | 4 | 6 | 6 | 7 | 7 |
| Disagree | 27 | 23 | 22 | 19 | 22 | 22 | 26 | 24 |
| Strongly disagree | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 2 |
| Male | _ | _ | _ | _ | O | 7 | - | _ |
| Strongly agree | 14 | 17 | 24 | 24 | 20 | 22 | 19 | 17 |
| Agree | 49 | 50 | 50 | 51 | 49 | 44 | 46 | 52 |
| Do not know | 7 | 7 | 3 | 3 | 5 | 6 | 6 | 6 |
| Disagree | 28 | 23 | 21 | 19 | 23 | 25 | 25 | 23 |
| Strongly disagree | 20 | 23 | 2 | 3 | 3 | 3 | 4 | 23 |
| Female | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 2 |
| | 14 | 10 | 0.4 | 24 | 01 | 24 | 00 | 16 |
| Strongly agree | | 18 | 24 | | 21 | | 23 | 16 |
| Agree | 49 | 49 | 46 | 50 | 48 | 45 | 38 | 50 |
| Do not know | 9 | 7 | 5 | 5 | 7 | 7 | 7 | 7 |
| Disagree | 26 | 24 | 22 | 19 | 21 | 20 | 28 | 25 |
| Strongly disagree | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 2 |
| Less than high school graduate | | | | | | | | |
| Strongly agree | 7 | 11 | 19 | 17 | 14 | 14 | 14 | 8 |
| Agree | 53 | 51 | 45 | 51 | 47 | 45 | 36 | 44 |
| Do not know | 11 | 14 | 9 | 5 | 13 | 10 | 12 | 9 |
| Disagree | 27 | 22 | 23 | 24 | 22 | 27 | 32 | 38 |
| Strongly disagree | 2 | 2 | 4 | 3 | 4 | 4 | 6 | 0 |
| High school graduate | | | | | | | | |
| Strongly agree | 15 | 19 | 24 | 24 | 20 | 24 | 22 | 16 |
| Agree | 48 | 49 | 49 | 50 | 49 | 45 | 44 | 52 |
| Do not know | 7 | 5 | 3 | 4 | 5 | 6 | 5 | 7 |
| Disagree | 28 | 25 | 22 | 19 | 23 | 21 | 26 | 23 |
| Strongly disagree | 2 | 2 | 2 | 3 | 3 | 4 | 3 | 2 |
| Baccalaureate and higher | | | | | | | | |
| Strongly agree | 22 | 24 | 30 | 29 | 28 | 29 | 27 | 24 |
| Agree | 45 | 50 | 48 | 53 | 48 | 44 | 44 | 52 |
| Do not know | 5 | 4 | 3 | 2 | 3 | 4 | 5 | 5 |
| Disagree | 25 | 20 | 16 | 15 | 19 | 20 | 21 | 17 |
| Strongly disagree | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 2 |
| | 3 | 2 | 3 | ' | 2 | 3 | 3 | 2 |
| Attentive public for science and technology | 20 | 26 | 36 | 31 | 32 | 33 | 32 | 22 |
| Strongly agree | 53 | 20 48 | 46 | 49 | 32 42 | 33 37 | | 45 |
| Agree | | | | | | | 36 | |
| Do not know | 5 | 5 | 1 | 3 | 2 | 4 | 5 | 7 |
| Disagree | 20 | 20 | 15 | 14 | 21 | 21 | 19 | 22 |
| Strongly disagree | 2 | 1 | 2 | 4 | 3 | 5 | 7 | 4 |
| | Samp | ole size (nui | iiberj | | | | | |
| All adults | 2,005 | 2,041 | 2,033 | 1,004 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 950 | 958 | 964 | 486 | 953 | 930 | 900 | 751 |
| Female | 1,054 | 1,084 | 1,070 | 533 | 1,053 | 1,070 | 982 | 823 |
| Less than high school graduate | 507 | 530 | 495 | 215 | 418 | 420 | 403 | 116 |
| High school graduate | 1,147 | 1,158 | 1,202 | 623 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 349 | 353 | 336 | 203 | 392 | 392 | 368 | 614 |
| Attentive public to science and technology ^a | 235 | 233 | 229 | 105 | 195 | 288 | 216 | 195 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Responses are to the following statement: The quality of science and mathematics education in American schools is inadequate. Do you strongly agree, agree, disagree, or strongly disagree?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-31. **Public confidence in leadership of various institutions: 1973–2000**(Percentages)

| Institution | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1980 | 1982 | 1983 | 1984 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1993 | 1994 | 1996 | 1998 | 2000 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|
| Medicine | 54 | 60 | 50 | 54 | 51 | 46 | 52 | 45 | 51 | 50 | 46 | 52 | 51 | 46 | 46 | 48 | 39 | 41 | 45 | 44 | 44 |
| Scientific community | 37 | 45 | 39 | 43 | 41 | 36 | 41 | 38 | 41 | 44 | 39 | 45 | 39 | 40 | 37 | 41 | 37 | 38 | 39 | 40 | 41 |
| Military | 32 | 40 | 35 | 39 | 36 | 29 | 28 | 31 | 29 | 36 | 31 | 34 | 34 | 32 | 33 | 60 | 42 | 37 | 37 | 36 | 39 |
| U.S. Supreme Court | 31 | 33 | 31 | 35 | 35 | 28 | 25 | 30 | 27 | 33 | 30 | 36 | 35 | 34 | 35 | 37 | 31 | 30 | 28 | 37 | 32 |
| Banks and financial instituitions | _ | _ | 32 | 39 | 42 | 33 | 32 | 27 | 24 | 31 | 21 | 27 | 27 | 19 | 18 | 12 | 15 | 18 | 25 | 26 | 29 |
| Major companies | 29 | 31 | 19 | 22 | 27 | 22 | 27 | 23 | 24 | 30 | 24 | 30 | 25 | 24 | 25 | 20 | 21 | 25 | 23 | 26 | 28 |
| Organized religion | 35 | 44 | 24 | 30 | 40 | 31 | 35 | 32 | 28 | 31 | 25 | 29 | 20 | 22 | 23 | 25 | 23 | 24 | 25 | 27 | 28 |
| Education | 37 | 49 | 31 | 37 | 41 | 28 | 30 | 33 | 29 | 28 | 28 | 35 | 29 | 30 | 27 | 30 | 22 | 25 | 23 | 27 | 27 |
| Executive Branch of Federal Government | 29 | 14 | 13 | 13 | 28 | 12 | 12 | 19 | 13 | 18 | 21 | 18 | 16 | 20 | 23 | 26 | 12 | 11 | 10 | 14 | 13 |
| Organized labor | 15 | 18 | 10 | 12 | 15 | 11 | 15 | 12 | 8 | 8 | 8 | 10 | 10 | 9 | 11 | 11 | 8 | 10 | 11 | 11 | 13 |
| Congress | 23 | 17 | 13 | 14 | 19 | 13 | 9 | 13 | 10 | 12 | 16 | 16 | 15 | 17 | 15 | 18 | 7 | 8 | 8 | 11 | 12 |
| Press | 23 | 26 | 24 | 28 | 25 | 20 | 22 | 18 | 13 | 17 | 18 | 18 | 18 | 17 | 15 | 16 | 11 | 8 | 11 | 9 | 10 |
| Television | 18 | 23 | 18 | 19 | 17 | 14 | 16 | 14 | 12 | 13 | 15 | 12 | 14 | 14 | 14 | 14 | 12 | 9 | 10 | 10 | 10 |
| Average ^a | 30 | 33 | 26 | 29 | 31 | 24 | 26 | 26 | 24 | 27 | 25 | 28 | 26 | 25 | 25 | 29 | 22 | 22 | 23 | 24 | 25 |
| Sample size (number) | 1,504 | 1,484 | 1,490 | 1,499 | 1,530 | 1,532 | 1,468 | 1,506 | 1,599 | 989 | 1,470 | 1,466 | 997 | 1,035 | 899 | 1,017 | 1,057 | 2,011 | 1,925 | 1,911 | 1,887 |

^{- =} not asked

NOTES: A few respondents did not provide information about their highest level of education. The survey was not conducted in 1979 and 1981, and the question was not asked in 1985. Percentages represent those respondents expressing a "great deal of confidence" when asked the following question: "As far as the people running these institutions are concerned, would you say that you have a great deal of confidence, only some confidence, or hardly any confidence at all in them?"

SOURCE: J.A. Davis and T.W. Smith, General Social Surveys, Cumulative Codebook (Chicago: University of Chicago, National Opinion Research Center).

See figure 7-14 in Volume 1.

^aAverage does not include banks and financial institutions.

Appendix table 7-32.

Response to statement, "Scientists are helping to solve challenging problems": 2001 (Percentages)

| All adults (number = 1,574) Strongly agree | Characteristic | 2001 |
|--|--|------|
| Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree * Male (number = 751) * Strongly agree 21 Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) * Strongly agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) * Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 1 High school graduate (number = 834) * Strongly agree 1 Agree 79 Do not know 1 Disagree 2 Strongly agree 2 Agree 75 <td< td=""><td>All adults (number = 1.574)</td><td></td></td<> | All adults (number = 1.574) | |
| Agree 79 Do not know 1 Disagree 2 Strongly disagree * Male (number = 751) 21 Strongly agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Strongly disagree 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) 3 Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 1 Agree 79 Do not know 1 Disagree 2 Strongly disagree 2 Strongly agree 4 Agree 75 Do not know * Do not know * Disagree * Atten | | 17 |
| Do not know 1 Disagree 2 Strongly disagree * Male (number = 751) 21 Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) 15 Strongly agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) 1 Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 1 Strongly agree 1 Agree 79 Do not know 1 Disagree 2 Strongly disagree 2 Strongly agree 4 Agree 75 Do not know * Disagree * < | | |
| Disagree 2 Strongly disagree * Male (number = 751) 21 Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 7 Do not know 1 Disagree 2 Strongly disagree 2 Strongly agree 2 Agree 75 Do not know * Disagree * Strongly disagree * * * Agree 75 Do not know * Disagree 8< | | |
| Strongly disagree * Male (number = 751) 21 Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 1 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 4 Agree 75 Do not know * Disagree * Strongly disagree * * * Attentive public to science and technologya (number = 195) | | |
| Male (number = 751) Strongly agree 21 Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) 15 Strongly agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 3 Strongly agree 1 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * * * Attentive public to science and technologya (number = 195) | 9 | |
| Strongly agree 21 Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) 15 Strongly agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 3 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 68 Do not know <td>0, 0</td> <td></td> | 0, 0 | |
| Agree 77 Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 68 Do not know 1 Disagree 68 | · · · · · · · · · · · · · · · · · · · | 21 |
| Do not know 1 Disagree 1 Strongly disagree 1 Female (number = 823) Strongly agree 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 2 Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * * * Do not know * Disagree 68 Do not | 0, 0 | |
| Disagree 1 Strongly disagree 1 Female (number = 823) 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 2 Strongly agree 2 Agree 75 Do not know * Disagree * Strongly disagree * * Strongly disagree * * Strongly agree * * Strongly disagree * * Strongly disagree * * Strongly disagree * * Strongly disagree * * Strongly agree * | • | |
| Strongly disagree 1 Female (number = 823) 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * * * Strongly agree * Attentive public to science and technology ^a (number = 195) Strongly agree 68 Do not know 1 Disagree 68 Do not know 1 | | |
| Female (number = 823) Strongly agree 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 68 Do not know 1 Disagree 68 Do not know 1 <td>9</td> <td>-</td> | 9 | - |
| Strongly agree 15 Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * * * Attentive public to science and technologya (number = 195) Strongly agree 68 Do not know 1 Disagree 68 Do not know 1 Disagree * | | |
| Agree 81 Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 3 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree 68 Do not know 1 Disagree * | | 15 |
| Do not know 2 Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) 5 Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 5 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree 68 Do not know 1 Disagree 68 | 0, 0 | |
| Disagree 3 Strongly disagree 1 Less than high school graduate (number = 116) 9 Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 17 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree 68 Do not know 1 Disagree * | • | |
| Strongly disagree 1 Less than high school graduate (number = 116) 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree 68 Do not know 1 Disagree * | | |
| Less than high school graduate (number = 116) Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) 3 Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | 9 | |
| Strongly agree 9 Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | | ' |
| Agree 85 Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | | a |
| Do not know 2 Disagree 4 Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | 0, 0 | |
| Disagree 4 Strongly disagree 2 High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | 9 | |
| Strongly disagree 2 High school graduate (number = 834) 17 Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | | |
| High school graduate (number = 834) Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | ů . | |
| Strongly agree 17 Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | • • | 2 |
| Agree 79 Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | | 17 |
| Do not know 1 Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) 3 Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | 0, 0 | |
| Disagree 2 Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | 9 | |
| Strongly disagree 1 Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | | |
| Baccalaureate and higher (number = 614) Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) 31 Agree 68 Do not know 1 Disagree * | ů . | _ |
| Strongly agree 24 Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) 31 Agree 68 Do not know 1 Disagree * | • • | ' |
| Agree 75 Do not know * Disagree * Strongly disagree * Attentive public to science and technologya (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | • , | 24 |
| Do not know * Disagree * Strongly disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | 0, 0 | |
| Disagree * Strongly disagree * Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | • | / S |
| Strongly disagree | | * |
| Attentive public to science and technology ^a (number = 195) Strongly agree 31 Agree 68 Do not know 1 Disagree * | o a contract of the contract o | |
| Strongly agree 31 Agree 68 Do not know 1 Disagree * | | |
| Agree 68 Do not know 1 Disagree * | | |
| Do not know | | |
| Disagree* | • | |
| Disagree | | |
| Strongly disagree 0 | 3 | |
| | Strongly disagree | 0 |

^{* = &}lt;.5

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

Appendix table 7-33.

Response to statement, "Scientific researchers are dedicated people who work for the good of humanity": 2001

(Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Strongly agree | 11 |
| Agree | 75 |
| Do not know | 3 |
| Disagree | 9 |
| Strongly disagree | 1 |
| Male (number = 751) | |
| Strongly agree | 11 |
| Agree | 74 |
| Do not know | 3 |
| Disagree | 11 |
| Strongly disagree | 1 |
| Female (number = 823) | |
| Strongly agree | 11 |
| Agree | 76 |
| Do not know | 4 |
| Disagree | 8 |
| Strongly disagree | 1 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 6 |
| Agree | 82 |
| Do not know | 3 |
| Disagree | 7 |
| Strongly disagree | 1 |
| High school graduate (number = 834) | |
| Strongly agree | 13 |
| Agree | 74 |
| Do not know | 3 |
| Disagree | 9 |
| Strongly disagree | 1 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 10 |
| Agree | 73 |
| Do not know | 4 |
| Disagree | 12 |
| Strongly disagree | 1 |
| Attentive public to science and technology ^a (number = 19 | , |
| Strongly agree | 23 |
| Agree | 61 |
| Do not know | 4 |
| Disagree | 10 |
| Strongly disagree | 1 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: A few respondents did not provide information about their highest level of education.

Appendix table 7-34.

Response to statement, "A scientist usually works alone": 2001

(Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Strongly agree | 2 |
| Agree | 15 |
| Do not know | 3 |
| Disagree | 65 |
| Strongly disagree | 15 |
| Male (number = 751) | |
| Strongly agree | 2 |
| Agree | 15 |
| Do not know | 2 |
| Disagree | 64 |
| Strongly disagree | 17 |
| Female (number = 823) | |
| Strongly agree | 2 |
| Agree | 15 |
| Do not know | 3 |
| Disagree | 66 |
| Strongly disagree | 13 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 4 |
| Agree | 22 |
| Do not know | 5 |
| Disagree | 55 |
| Strongly disagree | 14 |
| High school graduate (number = 834) | |
| Strongly agree | 2 |
| Agree | 15 |
| Do not know | 2 |
| Disagree | 66 |
| Strongly disagree | 14 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 1 |
| Agree | 11 |
| Do not know | 2 |
| Disagree | 70 |
| Strongly disagree | 17 |
| Attentive public to science and technology ^a (number = 19 | 95) |
| Strongly agree | 5 |
| Agree | 16 |
| Do not know | 3 |
| Disagree | 58 |
| Strongly disagree | 18 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

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Appendix table 7-35.

Response to statement, "Scientists don't get as much fun out of life as other people do": 2001 (Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Strongly agree | 3 |
| Agree | 16 |
| Do not know | 8 |
| Disagree | 63 |
| Strongly disagree | 9 |
| Male (number = 751) | |
| Strongly agree | 4 |
| Agree | 17 |
| Do not know | 8 |
| Disagree | 61 |
| Strongly disagree | 11 |
| Female (number = 823) | |
| Strongly agree | 3 |
| Agree | 16 |
| Do not know | 8 |
| Disagree | 66 |
| Strongly disagree | 8 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 3 |
| Agree | 34 |
| Do not know | 8 |
| Disagree | 49 |
| Strongly disagree | 6 |
| High school graduate (number = 834) | |
| Strongly agree | 4 |
| Agree | 14 |
| Do not know | 9 |
| Disagree | 65 |
| Strongly disagree | 8 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 1 |
| Agree | 10 |
| Do not know | 6 |
| Disagree | 69 |
| Strongly disagree | 13 |
| Attentive public to science and technology ^a (number = 19 | 95) |
| Strongly agree | 5 |
| Agree | 20 |
| Do not know | 7 |
| Disagree | 48 |
| Strongly disagree | 21 |
| | |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

Appendix table 7-36.

Response to statement, "Scientists are apt to be odd and peculiar people": 2001

(Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Strongly agree | 2 |
| Agree | 23 |
| Do not know | . 4 |
| Disagree | 63 |
| Strongly disagree | . 8 |
| Male (number = 751) | |
| Strongly agree | 3 |
| Agree | 25 |
| Do not know | . 3 |
| Disagree | 62 |
| Strongly disagree | . 7 |
| Female (number = 823) | |
| Strongly agree | 2 |
| Agree | 20 |
| Do not know | . 5 |
| Disagree | |
| Strongly disagree | . 8 |
| Less than high school graduate (number = 116) | |
| Strongly agree | |
| Agree | 34 |
| Do not know | . 4 |
| Disagree | 52 |
| Strongly disagree | . 6 |
| High school graduate (number = 834) | |
| Strongly agree | |
| Agree | |
| Do not know | |
| Disagree | |
| Strongly disagree | . 7 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | |
| Agree | |
| Do not know | |
| Disagree | |
| Strongly disagree | |
| Attentive public to science and technology ^a (number = 19 | |
| Strongly agree | |
| Agree | |
| Do not know | |
| Disagree | |
| Strongly disagree | 13 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-37. Response to statement, "Scientists have few other interests but their work": 2001 (Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Strongly agree | 2 |
| Agree | 27 |
| Do not know | |
| Disagree | 59 |
| Strongly disagree | 5 |
| Male (number = 751) | |
| Strongly agree | 2 |
| Agree | 31 |
| Do not know | 6 |
| Disagree | 57 |
| Strongly disagree | 5 |
| Female (number = 823) | |
| Strongly agree | 2 |
| Agree | 23 |
| Do not know | |
| Disagree | 61 |
| Strongly disagree | 4 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 2 |
| Agree | 36 |
| Do not know | |
| Disagree | |
| Strongly disagree | |
| High school graduate (number = 834) | Ü |
| Strongly agree | 3 |
| Agree | |
| Do not know | |
| Disagree | |
| Strongly disagree | |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 1 |
| Agree | |
| Do not know | |
| Disagree | |
| Strongly disagree | - |
| Attentive public to science and technology ^a (number = 1) | |
| Strongly agree | 3 |
| Agree | |
| Do not know | |
| Disagree | 62 |
| • | |
| Strongly disagree | 9 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

Appendix table 7-38.

Response to statement, "Scientists are not likely to be very religious people": 2001

(Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Strongly agree | 4 |
| Agree | 26 |
| Do not know | 11 |
| Disagree | 54 |
| Strongly disagree | 5 |
| Male (number = 751) | |
| Strongly agree | 4 |
| Agree | 30 |
| Do not know | 11 |
| Disagree | 50 |
| Strongly disagree | 5 |
| Female (number = 823) | |
| Strongly agree | 3 |
| Agree | 23 |
| Do not know | 12 |
| Disagree | 57 |
| Strongly disagree | 5 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 5 |
| Agree | 29 |
| Do not know | 12 |
| Disagree | 51 |
| Strongly disagree | 3 |
| High school graduate (number = 834) | |
| Strongly agree | 3 |
| Agree | 27 |
| Do not know | 11 |
| Disagree | 54 |
| Strongly disagree | 5 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 3 |
| Agree | 24 |
| Do not know | 10 |
| Disagree | 57 |
| Strongly disagree | 6 |
| Attentive public to science and technology ^a (number = 19 |)5) |
| Strongly agree | 6 |
| Agree | 23 |
| Do not know | 9 |
| Disagree | 52 |
| Strongly disagree | 9 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

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Appendix table 7-39. **Attitude toward or interest in science career: 2001** (Percentages)

| Characteristic | Daughter | Son |
|------------------------------------|---------------------------|----------|
| All adults (number = 1,574) | | |
| Нарру | 80 | 80 |
| Not care | 18 | 18 |
| Unhappy | 2 | 2 |
| Male (number = 751) | | |
| Нарру | 81 | 80 |
| Not care | 18 | 19 |
| Unhappy | 1 | 1 |
| Female (number = 823) | | |
| Нарру | 79 | 80 |
| Not care | 18 | 18 |
| Unhappy | 3 | 3 |
| Less than high school graduate (| number = 11 | 6) |
| Нарру | 80 | 78 |
| Not care | 13 | 15 |
| Unhappy | 8 | 7 |
| High school graduate (number = | 834) | |
| Нарру | 78 | 78 |
| Not care | 21 | 21 |
| Unhappy | 1 | 1 |
| Baccalaureate and higher (number | er = 614) | |
| Нарру | 86 | 86 |
| Not care | 13 | 14 |
| Unhappy | 1 | * |
| Attentive public to science and to | echnology ^a (r | number = |
| 195) | | |
| Нарру | 86 | 86 |
| Not care | 12 | 12 |
| Unhappy | 3 | 3 |

^{* = &}lt;.5

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following questions:

-Now I'd like you to consider the following situations. If you had a daughter, how would you feel if she wanted to be a scientist—would you feel happy, unhappy, or would you not care one way or the other?

-If you had a son, how would you feel if he wanted to be a scientist—would you feel happy, unhappy, or would you not care one way or the other?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-40. Response to statement, "Scientific work is dangerous": 2001 (Percentages)

| Characteristic | 2001 |
|---|------|
| All adults (number = 1,574) | |
| Strongly agree | 6 |
| Agree | 47 |
| Do not know | 2 |
| Disagree | 41 |
| Strongly disagree | 4 |
| Male (number = 751) | |
| Strongly agree | 6 |
| Agree | 47 |
| Do not know | 2 |
| Disagree | 41 |
| Strongly disagree | 4 |
| Female (number = 823) | |
| Strongly agree | 6 |
| Agree | 47 |
| Do not know | 2 |
| Disagree | 41 |
| Strongly disagree | 4 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 10 |
| Agree | 60 |
| Do not know | 1 |
| Disagree | 26 |
| Strongly disagree | 2 |
| High school graduate (number = 834) | |
| Strongly agree | 7 |
| Agree | 49 |
| Do not know | 3 |
| Disagree | 38 |
| Strongly disagree | 3 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 1 |
| Agree | 29 |
| Do not know | 3 |
| Disagree | 60 |
| Strongly disagree | 7 |
| Attentive public to science and technology ^a (number = 1 | |
| Strongly agree | 6 |
| Agree | 39 |
| Do not know | 3 |
| Disagree | 44 |
| Strongly disagree | 9 |
| | ~ |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of adjustion.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

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Appendix table 7-41. **Access to the World Wide Web at home: 2001**(Percentages)

| | | | Sample size |
|--|----|-----|-------------|
| Characteristic | No | Yes | (number) |
| All adults | 41 | 59 | 1,574 |
| Male | 37 | 63 | 751 |
| Female | 45 | 55 | 823 |
| Formal education | | | |
| Less than high school | 68 | 32 | 116 |
| High school graduate | 42 | 58 | 834 |
| Baccalaureate degree | 19 | 81 | 393 |
| Graduate/professional degree | 19 | 81 | 221 |
| Science/mathematics education ^a | | | |
| Low | 55 | 45 | 674 |
| Middle | 31 | 69 | 469 |
| High | 18 | 82 | 431 |
| Attentiveness to science and technology | b | | |
| Attentive public | 33 | 67 | 195 |
| Interested public | 34 | 66 | 755 |
| Residual public | 52 | 48 | 624 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-42. **Leading source of information about current news events: 2001** (Percentages)

| | | | | Books/ | | | | Friend/ | | | Sample size |
|--|-------------------|----------|----------|-------------|----|-------|--------|-----------|-------|------------|-------------|
| Characteristic | Newspaper | Magazine | Internet | other print | TV | Radio | Family | colleague | Other | Don't know | (number) |
| All adults | 29 | 3 | 7 | * | 53 | 5 | * | 1 | 1 | * | 1,574 |
| Male | 29 | 4 | 10 | * | 48 | 7 | * | 1 | 1 | * | 751 |
| Female | 29 | 3 | 5 | 1 | 57 | 4 | * | 1 | 1 | * | 823 |
| Formal education | | | | | | | | | | | |
| Less than high school | 22 | 2 | 3 | 0 | 69 | 1 | 0 | 4 | 0 | 1 | 116 |
| High school graduate | 29 | 3 | 7 | * | 54 | 6 | * | 1 | 1 | * | 834 |
| Baccalaureate degree | 30 | 7 | 12 | 1 | 42 | 8 | 0 | 1 | * | * | 393 |
| Graduate/professional degree | | 6 | 10 | 1 | 30 | 9 | * | 1 | 1 | * | 221 |
| Science/mathematics education ^a | | | | | | | | | | | |
| Low | 25 | 2 | 3 | * | 62 | 4 | * | 2 | * | * | 674 |
| Middle | 33 | 4 | 9 | * | 46 | 5 | * | 1 | 1 | 1 | 469 |
| High | | 6 | 16 | * | 35 | 9 | * | 1 | 1 | * | 431 |
| Attentiveness to science and technology | logy ^b | | | | | | | | | | |
| Attentive public | 37 | 7 | 8 | * | 44 | 3 | 0 | * | 1 | * | 195 |
| Interested public | | 4 | 9 | 1 | 53 | 6 | * | 1 | 1 | * | 755 |
| Residual public | 29 | 2 | 6 | * | 55 | 6 | 0 | 2 | 1 | * | 624 |

^{* = &}lt;.5

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following question: We are interested in how people get information about events in the news. Thinking about the kind of issues we have been talking about, where do you get most of your information about current news events?

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-19 in Volume 1. Science & Engineering Indicators – 2002

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

Appendix table 7-43. **Leading source of information about science and technology: 2001** (Percentages)

| | | | | Books/ | | | Government | | Friend/ | | S | ample size |
|-----------------------------------|---------------------|----------|----------|---------------|----|-------|------------|--------|-----------|-------|------------|------------|
| Characteristic | Newspaper | Magazine | Internet | other printed | TV | Radio | agency | Family | colleague | Other | Don't know | (number) |
| All adults | . 16 | 16 | 9 | 2 | 44 | 3 | * | 2 | 1 | 5 | 2 | 1,574 |
| Male | . 17 | 18 | 13 | 2 | 41 | 4 | * | 1 | 1 | 3 | 1 | 751 |
| Female | . 16 | 14 | 6 | 2 | 48 | 2 | 1 | 2 | 1 | 6 | 2 | 823 |
| Formal Education | | | | | | | | | | | | |
| Less than high school | . 13 | 9 | 2 | 4 | 53 | 4 | 1 | 1 | 1 | 9 | 4 | 116 |
| High school graduate | . 16 | 15 | 10 | 2 | 48 | 2 | * | 2 | 1 | 3 | 1 | 834 |
| Baccalaureate degree | . 17 | 23 | 16 | 3 | 31 | 3 | 0 | 1 | 1 | 4 | 1 | 393 |
| Graduate/professional degree | | 30 | 11 | 2 | 23 | 2 | * | 1 | 1 | 4 | 0 | 221 |
| Science/mathematics educationa | | | | | | | | | | | | |
| Low | . 16 | 12 | 5 | 2 | 53 | 3 | * | 2 | 1 | 5 | 2 | 674 |
| Middle | . 19 | 18 | 12 | 1 | 39 | 2 | * | 2 | 1 | 4 | 1 | 469 |
| High | . 15 | 27 | 19 | 4 | 28 | 3 | * | 1 | 1 | 4 | * | 431 |
| Attentiveness to science and tech | nology ^b | | | | | | | | | | | |
| Attentive public | . 20 | 35 | 14 | 3 | 21 | 1 | * | 1 | 0 | 5 | 0 | 195 |
| Interested public | . 14 | 18 | 11 | 2 | 46 | 3 | * | 2 | 1 | 4 | * | 755 |
| Residual public | . 18 | 10 | 7 | 2 | 48 | 3 | * | 1 | 1 | 5 | 3 | 624 |

^{* = &}lt;.5

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following question: We are also interested in how people get information about science and technology. Thinking about the kind of issues we have been talking about, where do you get most of your information about science and technology?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-19 in Volume 1. Science & Engineering Indicators – 2002

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

Appendix table 7-44. **Leading source of information about specific scientific issue: 2001** (Percentages)

| <u> </u> | | | | Books/ | | | Government | | Friend/ | | | Sample size |
|-------------------------|--------------|--------------------|----------|---------------|----|-------|------------|--------|-----------|-------|------------|-------------|
| Characteristic | Newspaper | Magazine | Internet | other printed | TV | Radio | agency | Family | colleague | Other | Don't know | (number) |
| All adults | 4 | 8 | 44 | 24 | 6 | * | * | * | 1 | 8 | 5 | 1,574 |
| Male | 4 | 9 | 45 | 22 | 6 | * | * | * | 1 | 8 | 5 | 751 |
| Female | 2 | 8 | 43 | 26 | 6 | 0 | 1 | 1 | * | 8 | 5 | 823 |
| Formal education | | | | | | | | | | | | |
| Less than high school | 3 | 5 | 26 | 29 | 13 | 0 | 0 | 1 | 1 | 9 | 12 | 116 |
| High school graduate | 3 | 7 | 45 | 25 | 6 | 0 | * | * | * | 8 | 4 | 834 |
| Baccalaureate degree | 3 | 13 | 55 | 18 | 3 | * | 1 | * | 0 | 7 | 1 | 393 |
| Graduate/professional | | | | | | | | | | | | |
| degree | 2 | 13 | 55 | 21 | 1 | 0 | * | 0 | 1 | 6 | 1 | 221 |
| Science/mathematics e | ducationa | | | | | | | | | | | |
| Low | 4 | 8 | 33 | 28 | 9 | 0 | * | 1 | 1 | 8 | 7 | 674 |
| Middle | 2 | 7 | 53 | 23 | 4 | 0 | * | * | * | 8 | 2 | 469 |
| High | | 12 | 60 | 15 | 2 | * | 1 | * | 1 | 8 | 0 | 431 |
| Attentiveness to scienc | e and techno | ology ^b | | | | | | | | | | |
| Attentive public | 3 | 11 | 47 | 25 | 5 | 0 | 0 | 0 | * | 5 | 2 | 195 |
| Interested public | 2 | 10 | 49 | 23 | 7 | 0 | * | * | * | 6 | 2 | 755 |
| Residual public | | 6 | 38 | 25 | 6 | * | * | 1 | 1 | 11 | 8 | 624 |

^{* = &}lt;.5

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Responses are to the following question: If you wanted to learn more about a scientific issue such as global warming or biotechnology, how would you get more information?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

See figure 7-19 in Volume 1. Science & Engineering Indicators – 2002

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

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Appendix table 7-45. Users of public information on an annual basis: 2001

| | Average nur | nber of vi | sits per year |
|--|-----------------|------------|---------------|
| | Science | Public | Sample size |
| Characteristic | museum | library | (number) |
| All adults | 3 | 10 | 1,574 |
| Male | 3 | 9 | 751 |
| Female | 3 | 12 | 823 |
| Formal education | | | |
| Less than high school | 2 | 6 | 116 |
| High school graduate | 2 | 10 | 834 |
| Baccalaureate | 4 | 14 | 393 |
| Graduate/professional | 4 | 18 | 221 |
| Science/mathematics education ^a | | | |
| Low | 2 | 7 | 674 |
| Middle | 3 | 13 | 469 |
| High | 4 | 15 | 431 |
| Attentiveness to science or technolo | gy ^b | | |
| Attentive public | 4 | 13 | 195 |
| Interested public | 3 | 11 | 755 |
| Residual public | 2 | 9 | 624 |
| Access to cable/satellite TV | | | |
| Cable and satellite | 2 | 14 | 42 |
| Cable | 3 | 10 | 991 |
| Satellite | 2 | 9 | 253 |
| Neither ^c | 2 | 11 | 286 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology. All other individuals are classified as members of the residual public for science and technology.

clncludes respondents who reported that they did not watch any television.

NOTE: A few respondents did not provide information about their highest level of education. Responses are to the following statements:

I am going to read to you a short list of places and ask you to tell me how many times you visited each type of place during the last year, that is, the last 12 months. If you did not visit a given place, just say none.

- -A natural history museum?
- -A zoo or an aquarium?
- -A science or technology museum?
- -A public library?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-46.

Viewers watching news magazines, public television, and science television shows: 2001
(Percentages)

| | TV | news magazi | nes | Р | ublic televisio | n | | NOVA | | National | Geographic | specials | Sample size |
|---------------------------------|-----------|--------------|------------|-----------|-----------------|------------|-----------|--------------|------------|-----------|--------------|------------|-------------|
| Characteristic | Regularly | Occasionally | Not at all | Regularly | Occasionally | Not at all | Regularly | Occasionally | Not at all | Regularly | Occasionally | Not at all | (number) |
| All adults | . 31 | 52 | 16 | 22 | 49 | 29 | 8 | 29 | 63 | 21 | 57 | 21 | 1,574 |
| Male | . 25 | 56 | 19 | 20 | 49 | 30 | 8 | 33 | 59 | 24 | 56 | 18 | 751 |
| Female | . 37 | 49 | 14 | 24 | 50 | 28 | 7 | 25 | 68 | 19 | 58 | 25 | 823 |
| Formal education | | | | | | | | | | | | | |
| Less than high school | . 21 | 51 | 28 | 23 | 39 | 38 | 4 | 19 | 77 | 21 | 49 | 30 | 116 |
| High school graduate | | 53 | 13 | 19 | 50 | 31 | 7 | 26 | 67 | 22 | 58 | 20 | 834 |
| Baccalaureate degree | . 29 | 53 | 17 | 25 | 58 | 17 | 11 | 42 | 47 | 21 | 60 | 19 | 393 |
| Graduate/professional degree | | 54 | 15 | 35 | 47 | 17 | 15 | 44 | 41 | 22 | 58 | 20 | 221 |
| Science/mathematics education | | | | | | | | | | | | | |
| Low | . 32 | 51 | 17 | 22 | 46 | 33 | 6 | 25 | 69 | 21 | 55 | 23 | 674 |
| Middle | . 33 | 53 | 15 | 20 | 53 | 27 | 8 | 29 | 62 | 21 | 59 | 20 | 469 |
| High | | 57 | 18 | 26 | 53 | 21 | 11 | 39 | 50 | 23 | 59 | 18 | 431 |
| Attentiveness to science and te | | b | | | | | | | | | | | |
| Attentive public | | 43 | 17 | 31 | 50 | 19 | 20 | 33 | 47 | 34 | 52 | 14 | 195 |
| Interested public | | 52 | 16 | 22 | 50 | 28 | 8 | 32 | 60 | 24 | 60 | 17 | 755 |
| Residual public | | 55 | 17 | 19 | 49 | 32 | 4 | 24 | 71 | 16 | 55 | 29 | 624 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following questions:

I'd like to read you a short list of television shows and ask you to tell me whether you watch each show regularly, that is, most of the time, occasionally, or not at all.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

⁻News magazine shows like 60 Minutes, 20/20, or Dateline.

⁻How about public television programs other than NOVA? NOVA? National Geographic Specials?

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Appendix table 7-47. **Viewers watching television news: 2001** (Percentages)

| | Every | A few times | Once | Less than | Sa | ample size |
|--|-----------------|-------------|--------|-------------|-------|------------|
| Characteristic | day | a week | a week | once a week | Never | (number) |
| All adults | 63 | 27 | 5 | 3 | 2 | 1,574 |
| Male | 60 | 29 | 6 | 3 | 2 | 751 |
| Female | 66 | 25 | 4 | 3 | 2 | 823 |
| Formal education | | | | | | |
| Less than high school | 61 | 29 | 6 | 2 | 2 | 116 |
| High school graduate | 66 | 25 | 5 | 3 | 1 | 834 |
| Baccalaureate degree | 57 | 32 | 5 | 3 | 2 | 393 |
| Graduate/professional degree | 63 | 23 | 4 | 5 | 5 | 221 |
| Science/mathematics education ^a | | | | | | |
| Low | 67 | 23 | 5 | 3 | 2 | 674 |
| Middle | 60 | 31 | 4 | 3 | 2 | 469 |
| High | 57 | 30 | 5 | 6 | 2 | 431 |
| Attentiveness to science and technological | gy ^b | | | | | |
| Attentive public | 71 | 21 | 6 | 2 | 1 | 195 |
| Interested public | 65 | 25 | 5 | 3 | 2 | 755 |
| Residual public | 60 | 29 | 5 | 4 | 3 | 624 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

b To be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-48. **Daily newspaper readers: 1979–2001**

| Characteristic | 1979 | 1981 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|---|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| | | | | Percent | | | | | | |
| All adults | 60 | 62 | 61 | 53 | 57 | 56 | 47 | 46 | 41 | 42 |
| Male | 63 | 64 | 66 | 52 | 63 | 63 | 52 | 49 | 44 | 45 |
| Female | 57 | 61 | 57 | 55 | 52 | 50 | 43 | 43 | 38 | 39 |
| Formal education | | | | | | | | | | |
| Less than high school | 52 | 56 | 55 | 46 | 53 | 47 | 42 | 41 | 36 | 23 |
| High school graduate | 59 | 62 | 61 | 54 | 55 | 56 | 46 | 44 | 40 | 44 |
| Baccalaureate degree | 74 | 68 | 68 | 59 | 71 | 59 | 55 | 53 | 48 | 48 |
| Graduate/professional degree | 84 | 75 | 79 | 68 | 70 | 70 | 60 | 59 | 57 | 60 |
| Attentiveness to science or technology ^a | | | | | | | | | | |
| Attentive public | 88 | 88 | 85 | 77 | 87 | 76 | 77 | 79 | 75 | 78 |
| Interested public | 56 | 59 | 55 | 51 | 54 | 53 | 41 | 38 | 35 | 38 |
| Residual public | 58 | 57 | 61 | 50 | 53 | 54 | 48 | 42 | 38 | 38 |
| | | | Sam | nple size (num | ber) | | | | | |
| All adults | 1,635 | 1,631 | 2,005 | 2,041 | 2,033 | 1,004 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 773 | 775 | 950 | 958 | 964 | 486 | 953 | 930 | 900 | 751 |
| Female | 862 | 856 | 1,054 | 1,084 | 1,070 | 533 | 1,053 | 1,070 | 982 | 823 |
| Less than high school graduate | 465 | 404 | 507 | 530 | 495 | 215 | 418 | 420 | 403 | 116 |
| High school graduate | 932 | 941 | 1,147 | 1,158 | 1,202 | 623 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 238 | 282 | 349 | 353 | 336 | 203 | 392 | 392 | 368 | 614 |
| Attentive public to science and technology | 154 | 208 | 235 | 233 | 229 | 105 | 195 | 288 | 216 | 195 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

See figure 7-20 in Volume 1. Science & Engineering Indicators – 2002

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Appendix table 7-49.

Users of various sources of information: 2001

(Percentages)

| | | | | | Science | |
|--|------------------|----------------|-----------|-----------|-----------------|----------|
| | | News | Public | library | museum | Sample |
| | Newspaper | magazine | visits p | er year | 1 or more | size |
| Characteristic | every day | read regularly | 1 or more | 5 or more | visits per year | (number) |
| All adults | 42 | 16 | 75 | 48 | 66 | 1,574 |
| Male | 45 | 17 | 71 | 42 | 64 | 751 |
| Female | 39 | 14 | 78 | 53 | 68 | 823 |
| Formal education | | | | | | |
| Less than high school | 23 | 7 | 60 | 27 | 54 | 116 |
| High school graduate | 44 | 13 | 74 | 48 | 64 | 834 |
| Baccalaureate | 48 | 25 | 85 | 62 | 81 | 393 |
| Graduate/professional | 60 | 31 | 85 | 67 | 83 | 221 |
| Science/mathematics education ^a | | | | | | |
| Low | 38 | 11 | 68 | 37 | 56 | 674 |
| Middle | 43 | 17 | 81 | 58 | 75 | 469 |
| High | 50 | 27 | 95 | 61 | 82 | 431 |
| Attentiveness to science and technol | ogy ^b | | | | | |
| Attentive public | 78 | 29 | 78 | 55 | 75 | 195 |
| Interested public | 38 | 15 | 78 | 51 | 68 | 755 |
| Residual public | 38 | 13 | 70 | 42 | 62 | 624 |
| Access to cable/satellite TV | | | | | | |
| Cable and satellite | 42 | 17 | 90 | 56 | 60 | 42 |
| Cable | 49 | 19 | 75 | 48 | 69 | 991 |
| Satellite | 35 | 10 | 73 | 43 | 63 | 253 |
| Neither ^c | 27 | 9 | 74 | 49 | 61 | 286 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

clncludes respondents who reported that they did not watch any television.

NOTE: A few respondents did not provide information about their highest level of education. Responses are to the following questions:

- -How often do you read a newspaper: every day, a few times a week, once a week, or less than once a week?
- -Are there any magazines that you read regularly, that is, most of the time? What magazine would that be?

I am going to read you a short list of places and ask you to tell me how many times you visited each type of place during the last year, that is, the last 12 months. If you did not visit any given place, just say none.

- -A natural history museum?
- -A zoo or an aquarium?
- -A science or technology museum?
- -A public library?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-50. Visitors of science or technology museums one or more times per year: 1983–2001

| Characteristic | 1983 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|---------------------------------|----------|-------|------------|------------|-------|-------|-------|-------|-------|
| | | | Perc | ent | | | | | |
| All adults | 61 | 58 | 59 | 59 | 62 | 61 | 60 | 61 | 66 |
| Male | 62 | 58 | 57 | 59 | 60 | 59 | 63 | 63 | 64 |
| Female | 60 | 57 | 61 | 60 | 63 | 63 | 58 | 60 | 68 |
| Formal education | | | | | | | | | |
| Less than high school | 43 | 37 | 36 | 30 | 40 | 32 | 34 | 37 | 54 |
| High school graduate | 63 | 61 | 64 | 66 | 64 | 64 | 64 | 63 | 64 |
| Baccalaureate degree | 78 | 78 | 80 | 79 | 78 | 80 | 78 | 83 | 81 |
| Graduate/professional | | | | | | | | | |
| degree | 83 | 79 | 81 | 76 | 78 | 83 | 75 | 79 | 83 |
| Attentiveness to science or tec | hnologya | | | | | | | | |
| Attentive public | 72 | 70 | 61 | 69 | 67 | 71 | 68 | 73 | 75 |
| Interested public | 66 | 60 | 63 | 60 | 61 | 65 | 66 | 67 | 68 |
| Residual public | 51 | 53 | 56 | 57 | 61 | 54 | 51 | 52 | 62 |
| | | , | Sample siz | e (number) | | | | | |
| All adults | 1,631 | 2,005 | 2,041 | 2,033 | 1,004 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 775 | 950 | 958 | 964 | 486 | 953 | 930 | 900 | 751 |
| Female | 856 | 1,054 | 1,084 | 1,070 | 533 | 1,053 | 1,070 | 982 | 823 |
| Less than high school graduate | 404 | 507 | 530 | 495 | 215 | 418 | 420 | 403 | 116 |
| High school graduate | 941 | 1,147 | 1,158 | 1,202 | 623 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 282 | 349 | 353 | 336 | 203 | 392 | 392 | 368 | 614 |
| Attentive public to science | | | | | | | | | |
| and technology | 208 | 235 | 233 | 229 | 105 | 195 | 288 | 216 | 195 |

about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

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Appendix table 7-51. **Readers of science fiction books or magazines: 2001** (Percentages)

| | | | Frequency | of reading | |
|--|----|-----|-----------|------------|-------------|
| | R | ead | | Once in | Sample size |
| Characteristic | No | Yes | Regularly | a while | (number) |
| All adults | 70 | 30 | 16 | 84 | 1,574 |
| Male | 69 | 31 | 16 | 84 | 751 |
| Female | 72 | 28 | 17 | 83 | 823 |
| Formal education | | | | | |
| Less than high school | 77 | 23 | 7 | 93 | 116 |
| High school graduate | 71 | 29 | 19 | 81 | 834 |
| Baccalaureate degree | 65 | 35 | 13 | 87 | 393 |
| Graduate/professional degree | 65 | 35 | 14 | 86 | 221 |
| Science/mathematics education ^a | | | | | |
| Low | 77 | 23 | 18 | 82 | 674 |
| Middle | 67 | 33 | 10 | 90 | 469 |
| High | 57 | 43 | 20 | 80 | 431 |
| Attentiveness to science and technology ^b | | | | | |
| Attentive public | 63 | 37 | 28 | 72 | 195 |
| Interested public | 66 | 34 | 17 | 83 | 755 |
| Residual public | 77 | 23 | 10 | 90 | 624 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

^bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

Appendix table 7-52. **Viewers of Star Trek and X-Files: 2001** (Percentages)

| | | Star Trek | | | X-Files | | Sample size |
|--|-----------|--------------|------------|-----------|--------------|------------|----------------|
| Characteristic | Regularly | Occasionally | Not at all | Regularly | Occasionally | Not at all | (number) |
| All adults | 11 | 21 | 68 | 15 | 28 | 57 | 1,574 |
| Male | 12 | 23 | 64 | 15 | 30 | 55 | 751 |
| Female | 10 | 18 | 72 | 14 | 27 | 59 | 823 |
| Formal education | | | | | | | |
| Less than high school | 11 | 16 | 73 | 17 | 29 | 54 | 116 |
| High school graduate | 11 | 21 | 68 | 15 | 30 | 55 | 834 |
| Baccalaureate degree | 11 | 25 | 64 | 16 | 22 | 62 | 393 |
| Graduate/professional degree | 8 | 20 | 71 | 7 | 27 | 66 | 221 |
| Science/mathematics education ^a | | | | | | | |
| Low | 13 | 18 | 69 | 17 | 27 | 55 | 674 |
| Middle | 8 | 23 | 69 | 11 | 28 | 59 | 469 |
| High | 11 | 23 | 66 | 15 | 30 | 57 | 431 |
| Attentiveness to science and technology | b | | | | | | |
| Attentive public | 14 | 22 | 64 | 15 | 32 | 53 | 195 |
| Interested public | 14 | 21 | 64 | 19 | 30 | 51 | 755 |
| Residual public | 6 | 19 | 74 | 10 | 26 | 64 | 624 |

^aRespondents were classified as having a "high" level of science/mathematics education if they took nine or more high school and college science/math courses. They were classified as "middle" if they took six to eight such courses and "low" if they took five or fewer.

NOTE: A few respondents did not provide information about their highest level of education.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

bTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

Appendix table 7-53. Public assessment of astrology: 1979–2001

| Characteristic | 1979 | 1981 | 1985 | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|-------------------------------|----------|--------|-------|-------------|-------|-------|-------|-------|-------|-------|
| | | | | Percent | | | | | | |
| All adults | | | | | | | | | | |
| Very scientific | 7 | 10 | 8 | 6 | 6 | 6 | 7 | 7 | 7 | 9 |
| Sort of scientific | 34 | 35 | 31 | 31 | 29 | 29 | 28 | 29 | 29 | 31 |
| Not at all scientific | 50 | 51 | 57 | 60 | 60 | 62 | 60 | 59 | 59 | 56 |
| Do not know | 9 | 4 | 4 | 3 | 5 | 3 | 5 | 5 | 5 | 4 |
| Male | | | | | | | | | | |
| Very scientific | 7 | 9 | 7 | 5 | 5 | 6 | 7 | 7 | 7 | 9 |
| Sort of scientific | 30 | 29 | 29 | 25 | 23 | 25 | 24 | 27 | 25 | 27 |
| Not at all scientific | 54 | 58 | 60 | 67 | 67 | 67 | 65 | 63 | 63 | 60 |
| Do not know | 9 | 4 | 4 | 3 | 5 | 2 | 4 | 3 | 5 | 3 |
| Female | | | | | | | | | | |
| Very scientific | 8 | 10 | 9 | 7 | 6 | 7 | 7 | 7 | 7 | 8 |
| Sort of scientific | 37 | 41 | 32 | 37 | 35 | 32 | 32 | 31 | 32 | 36 |
| Not at all scientific | 46 | 44 | 55 | 53 | 55 | 58 | 55 | 55 | 56 | 52 |
| Do not know | 9 | 5 | 4 | 3 | 4 | 3 | 6 | 7 | 5 | 4 |
| Less than high school gradua | ate | | | | | | | | | |
| Very scientific | 11 | 13 | 14 | 11 | 7 | 12 | 11 | 11 | 13 | 14 |
| Sort of scientific | 34 | 37 | 38 | 35 | 31 | 33 | 28 | 37 | 34 | 35 |
| Not at all scientific | 39 | 40 | 43 | 50 | 50 | 49 | 48 | 42 | 41 | 45 |
| Do not know | 16 | 10 | 5 | 4 | 12 | 6 | 13 | 10 | 12 | 6 |
| High school graduate | | | | | | | | | | |
| Very scientific | 7 | 10 | 8 | 6 | 6 | 6 | 8 | 7 | 7 | 9 |
| Sort of scientific | 37 | 38 | 29 | 32 | 32 | 31 | 30 | 30 | 30 | 35 |
| Not at all scientific | 50 | 50 | 60 | 59 | 60 | 61 | 59 | 59 | 60 | 52 |
| Do not know | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 4 | 3 | 4 |
| Baccalaureate and higher | | | | | | | | | | |
| Very scientific | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 4 |
| Sort of scientific | 20 | 25 | 25 | 23 | 18 | 17 | 22 | 19 | 19 | 21 |
| Not at all scientific | 71 | 69 | 70 | 74 | 77 | 78 | 74 | 76 | 76 | 74 |
| Do not know | 7 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 |
| Attentive public to science a | nd techr | ologya | | | | | | | | |
| Very scientific | 8 | 9 | 7 | 3 | 6 | 15 | 8 | 7 | 12 | 4 |
| Sort of scientific | 28 | 34 | 27 | 29 | 21 | 23 | 24 | 29 | 23 | 25 |
| Not at all scientific | 60 | 54 | 62 | 66 | 72 | 58 | 65 | 62 | 64 | 68 |
| Do not know | 4 | 3 | 4 | 2 | 1 | 4 | 3 | 2 | 1 | 2 |
| | | | Samp | le size (nu | mber) | | | | | |
| All adults | 1,635 | 1,631 | 2,005 | 2,041 | 2,033 | 1,004 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 773 | 775 | 950 | 958 | 964 | 486 | 953 | 930 | 900 | 751 |
| Female | 862 | 856 | 1,054 | 1,084 | 1,070 | 533 | 1,053 | 1,070 | 982 | 823 |
| Less than high school | | | | | | | | | | |
| graduate | 465 | 404 | 507 | 530 | 495 | 215 | 418 | 420 | 403 | 116 |
| High school graduate | 932 | 941 | 1,147 | 1,158 | 1,202 | 623 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 238 | 282 | 349 | 353 | 336 | 203 | 392 | 392 | 368 | 614 |
| Attentive public to science | | | | | | | | | | |
| and technology | 154 | 208 | 235 | 233 | 229 | 105 | 195 | 288 | 216 | 195 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Responses are to the following question: Would you say that astrology is very scientific, sort of scientific, or not at all scientific?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, various years.

See figure 7-21 in Volume 1.

Appendix table 7-54. Frequency of reading astrology reports, by selected characteristics: 1985–2001

| Characteristic | 1985 | 1988 | 1990 | 1992 | 1997 | 1999 | 2001 |
|---|-----------------|-------------|----------|-------|-------|-------|-------|
| | | Perce | nt | | | | |
| All adults | | | | | | | |
| Every day | 9 | 9 | 9 | 8 | 7 | 6 | 7 |
| Quite often | 6 | 8 | 8 | 7 | 8 | 6 | 8 |
| Just occasionally | 37 | 33 | 33 | 35 | 33 | 32 | 30 |
| Almost never | 13 | 13 | 12 | 13 | 12 | 17 | 18 |
| Never | 35 | 37 | 38 | 37 | 38 | 39 | 38 |
| Do not know | * | 0 | 0 | 0 | 2 | * | * |
| Male | | | | | | | |
| Every day | 8 | 6 | 5 | 6 | 3 | 4 | 4 |
| Quite often | 5 | 4 | 4 | 6 | 6 | 4 | 7 |
| Just occasionally | 30 | 30 | 29 | 29 | 32 | 26 | 23 |
| Almost never | 14 | 15 | 14 | 14 | 13 | 18 | 20 |
| Never | 43 | 45 | 48 | 45 | 44 | 48 | 46 |
| Do not know | * | 0 | 0 | 0 | 2 | 0 | 0 |
| Female | | | | | | | |
| Every day | 10 | 13 | 12 | 10 | 10 | 7 | 10 |
| Quite often | 6 | 11 | 11 | 9 | 9 | 7 | 8 |
| Just occasionally | 44 | 37 | 37 | 40 | 35 | 37 | 36 |
| Almost never | 12 | 10 | 11 | 12 | 11 | 16 | 16 |
| Never | 27 | 29 | 29 | 29 | 33 | 33 | 30 |
| Do not know | | 0 | 0 | 0 | 2 | * | * |
| Less than high school graduate | | | | | | | |
| Every day | 11 | 13 | 13 | 10 | 11 | 11 | 9 |
| Quite often | 7 | 8 | 7 | 9 | 8 | 7 | 7 |
| Just occasionally | 31 | 28 | 28 | 35 | 32 | 26 | 26 |
| Almost never | | 10 | 9 | 14 | 6 | 15 | 19 |
| Never | 39 | 41 | 43 | 32 | 43 | 41 | 39 |
| Do not know | * | 0 | 0 | 0 | * | * | 0 |
| High school graduate | | | | | | | |
| Every day | 10 | 8 | 9 | 9 | 7 | 5 | 7 |
| Quite often | | 9 | 8 | 8 | 9 | 6 | 9 |
| Just occasionally | | 36 | 36 | 37 | 35 | 34 | 32 |
| Almost never | | 13 | 12 | 11 | 13 | 17 | 16 |
| Never | | 35 | 35 | 35 | 34 | 38 | 35 |
| Do not know | | 0 | 0 | 0 | 2 | 0 | * |
| Baccalaureate and higher | | | | | | | |
| Every day | 5 | 6 | 4 | 5 | 4 | 3 | 4 |
| Quite often | | 5 | 6 | 4 | 4 | 4 | 4 |
| Just occasionally | | 33 | 30 | 29 | 29 | 30 | 27 |
| Almost never | 16 | 16 | 18 | 16 | 15 | 20 | 22 |
| Never | 36 | 40 | 42 | 46 | 44 | 43 | 43 |
| Do not know | * | 0 | 0 | 0 | 4 | 0 | 0 |
| Attentive public to science and technological | ava | Ü | Ü | Ü | · | Ü | · · |
| Every day | وو 12 | 17 | 13 | 15 | 13 | 7 | 14 |
| Quite often | 6 | 8 | 5 | 4 | 9 | 3 | 8 |
| Just occasionally | | 30 | 38 | 27 | 30 | 33 | 26 |
| Almost never | 13 | 11 | 10 | 11 | 12 | 16 | 13 |
| Never | | 34 | 34 | 43 | 32 | 41 | 40 |
| Do not know | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| DO NOT KNOW | | | | | | | |
| | | Sample size | (number) | | | | |
| All adults | 2,005 | 2,041 | 2,033 | 1,004 | 2,000 | 1,882 | 1,574 |
| Male | | 958 | 964 | 486 | 930 | 900 | 751 |
| Female | , | 1,084 | 1,070 | 533 | 1,070 | 982 | 823 |
| Less than high school graduate | 507 | 530 | 495 | 215 | 420 | 403 | 116 |
| High school graduate | 1,147 | 1,158 | 1,202 | 623 | 1,188 | 1,111 | 834 |
| | 349 | 353 | 336 | 203 | 392 | 368 | 614 |
| Baccalaureate and higher | | | | | | | |
| Attentive public to science and | | | | | | | |

See explanatory notes, if any, and SOURCE at end of table.

A7-60 Appendix Tables

Appendix table 7-54.

Frequency of reading astrology reports, by selected characteristics: 1985-2001

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Responses are to the following questions:

- -Do you ever read a horoscope or your personal astrology report?
- -(If yes:) Do you read an astrology report every day, quite often, just occasionally, or almost never?

SOURCE: National Science Foundation, Division of Science Resource Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.

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^{* = &}lt;.5

Appendix table 7-55. **Belief in psychic powers or extrasensory perception, by selected characteristics: 2001** (Percentages)

| Characteristic | 2001 |
|---|------|
| All adults (number = 1,574) | |
| Strongly agree | 7 |
| Agree | 53 |
| Do not know | 4 |
| Disagree | 29 |
| Strongly disagree | 7 |
| Male (number =751) | |
| Strongly agree | 7 |
| Agree | 47 |
| Do not know | 4 |
| Disagree | 34 |
| Strongly disagree | 7 |
| Female (number = 823) | |
| Strongly agree | 7 |
| Agree | 58 |
| Do not know | 4 |
| Disagree | 25 |
| Strongly disagree | 6 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 4 |
| Agree | 42 |
| Do not know | 4 |
| Disagree | 41 |
| Strongly disagree | 9 |
| High school graduate (number = 834) | |
| Strongly agree | 8 |
| Agree | 57 |
| Do not know | 3 |
| Disagree | 26 |
| Strongly disagree | 8 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 8 |
| Agree | 52 |
| Do not know | 5 |
| Disagree | 29 |
| Strongly disagree | 5 |
| Attentive public to science and technology ^a (number = | 195) |
| Strongly agree | 10 |
| Agree | 49 |
| Do not know | 4 |
| Disagree | 29 |
| Strongly disagree | 8 |
| | |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Percentages may not add to 100 because of rounding. Responses are to the following statement: Some people possess psychic powers or ESP. Do you strongly agree, agree, disagree, or strongly disagree?

Appendix table 7-56.

Belief that unidentified flying objects are space vehicles from other civilizations: 2001

(Percentages)

| Characteristic | 2001 |
|---|------|
| All adults (number = 1,574) | |
| Strongly agree | 3 |
| Agree | 27 |
| Do not know | 13 |
| Disagree | 45 |
| Strongly disagree | 12 |
| Male (number = 751) | |
| Strongly agree | 4 |
| Agree | 25 |
| Do not know | 12 |
| Disagree | 46 |
| Strongly disagree | 13 |
| Female (number = 823) | |
| Strongly agree | 2 |
| Agree | 28 |
| Do not know | 14 |
| Disagree | 45 |
| Strongly disagree | 11 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 4 |
| Agree | 28 |
| Do not know | 10 |
| Disagree | 48 |
| Strongly disagree | 11 |
| High school graduate (number = 834) | |
| Strongly agree | 3 |
| Agree | 28 |
| Do not know | 13 |
| Disagree | 44 |
| Strongly disagree | 12 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 2 |
| Agree | 22 |
| Do not know | 16 |
| Disagree | 48 |
| Strongly disagree | 12 |
| Attentive public to science and technology ^a (number = 1 | 95) |
| Strongly agree | 3 |
| Agree | 33 |
| Do not know | 13 |
| Disagree | 36 |
| Strongly disagree | 15 |
| | |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: A few respondents did not provide information about their highest level of education. Percentages may not add to 100 because of rounding. Responses are to the following statement: Some of the unidentified flying objects that have been reported are really space vehicles from other civilizations. Do you strongly agree, agree, disagree, or strongly disagree?

Appendix table 7-57.

Belief in lucky numbers, by selected characteristics: 1988–2001

| Characteristic | 1988 | 1990 | 1992 | 1995 | 1997 | 1999 | 2001 |
|---|-------|----------|--------------|-------|-------|-------|-------|
| | | Perce | ent | | | | |
| All adults | | | | | | | |
| Strongly agree | 1 | 2 | 3 | 2 | 2 | 3 | 3 |
| Agree | 35 | 33 | 33 | 35 | 34 | 31 | 29 |
| Do not know | 5 | 4 | 3 | 4 | 5 | 3 | 4 |
| Disagree | 51 | 51 | 50 | 48 | 46 | 51 | 53 |
| Strongly disagree | 8 | 10 | 11 | 11 | 13 | 12 | 11 |
| Male | | | | | | | |
| Strongly agree | 2 | 2 | 4 | 3 | 2 | 4 | 3 |
| Agree | 35 | 31 | 33 | 34 | 33 | 30 | 30 |
| Do not know | 4 | 3 | 3 | 3 | 5 | 2 | 3 |
| Disagree | 50 | 52 | 48 | 48 | 46 | 51 | 52 |
| Strongly disagree | 9 | 12 | 12 | 12 | 14 | 13 | 13 |
| Female | | | | | | | |
| Strongly agree | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| Agree | 36 | 36 | 34 | 37 | 36 | 32 | 29 |
| Do not know | 5 | 5 | 3 | 4 | 5 | 4 | 5 |
| Disagree | 52 | 50 | 52 | 48 | 45 | 51 | 54 |
| Strongly disagree | 6 | 7 | 9 | 9 | 12 | 10 | 10 |
| Less than high school graduate | | | | | | | |
| Strongly agree | 1 | 2 | 7 | 3 | 4 | 7 | 3 |
| Agree | 47 | 46 | 43 | 46 | 43 | 39 | 48 |
| Do not know | 7 | 6 | 5 | 6 | 8 | 4 | 4 |
| Disagree | 43 | 44 | 40 | 41 | 33 | 44 | 40 |
| Strongly disagree | 2 | 2 | 5 | 4 | 12 | 6 | 6 |
| High school graduate | | | | | | | |
| Strongly agree | 2 | 3 | 3 | 3 | 2 | 2 | 3 |
| Agree | 34 | 33 | 35 | 37 | 36 | 33 | 27 |
| Do not know | 3 | 3 | 2 | 3 | 4 | 3 | 4 |
| Disagree | 54 | 52 | 51 | 48 | 48 | 52 | 56 |
| Strongly disagree | 7 | 9 | 9 | 9 | 10 | 10 | 10 |
| Baccalaureate and higher | | | | | | | |
| Strongly agree | 1 | 1 | 0 | 1 | 2 | 1 | 2 |
| Agree | 23 | 16 | 18 | 20 | 20 | 21 | 20 |
| Do not know | 5 | 4 | 4 | 4 | 5 | 3 | 4 |
| Disagree | 53 | 59 | 57 | 55 | 52 | 52 | 56 |
| Strongly disagree | 18 | 20 | 21 | 20 | 21 | 23 | 18 |
| Attentive public to science and technology ^a | | | | | | | |
| Strongly agree | 2 | 2 | 5 | 6 | 5 | 6 | 4 |
| Agree | 36 | 28 | 32 | 25 | 29 | 27 | 30 |
| Do not know | 4 | 5 | 4 | 3 | 6 | 2 | 4 |
| Disagree | 45 | 51 | 44 | 48 | 42 | 45 | 50 |
| Strongly disagree | 13 | 14 | 15 | 18 | 18 | 20 | 13 |
| | | Sample s | size (number |) | | | |
| All adults | 2,041 | 2,033 | 1,004 | 2,006 | 2,000 | 1,882 | 1,574 |
| Male | 958 | 964 | 486 | 953 | 930 | 900 | 751 |
| Female | 1.084 | 1.070 | 533 | 1.053 | 1,070 | 982 | 823 |
| Less than high school graduate | 530 | 495 | 215 | 418 | 420 | 403 | 116 |
| High school graduate | 1,158 | 1,202 | 623 | 1,196 | 1,188 | 1,111 | 834 |
| Baccalaureate and higher | 353 | 336 | 203 | 392 | 392 | 368 | 614 |
| Attentive public to science | | | | | | | 011 |
| and technology | 233 | 229 | 105 | 195 | 288 | 216 | 195 |
| and teermology | 200 | | 100 | 133 | 200 | 210 | 190 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following statement:

Some numbers are especially lucky for some people. Do you strongly agree, agree, disagree, or strongly disagree?

Appendix table 7-58. **Belief in alternative medicine, by selected characteristics: 2001**(Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number= 1,574) | |
| Strongly agree | 18 |
| Agree | 70 |
| Do not know | 3 |
| Disagree | 7 |
| Strongly disagree | 1 |
| Male (number= 751) | |
| Strongly agree | 18 |
| Agree | 72 |
| Do not know | 3 |
| Disagree | 6 |
| Strongly disagree | 1 |
| Female (number= 823) | |
| Strongly agree | 19 |
| Agree | 69 |
| Do not know | 4 |
| Disagree | 8 |
| Strongly disagree | 1 |
| Less than high school graduate (number = 116) | |
| Strongly agree | 15 |
| Agree | 68 |
| Do not know | 5 |
| Disagree | 11 |
| Strongly disagree | 1 |
| High school graduate (number = 834) | |
| Strongly agree | 18 |
| Agree | 71 |
| Do not know | 4 |
| Disagree | 7 |
| Strongly disagree | 1 |
| Baccalaureate and higher (number = 614) | |
| Strongly agree | 20 |
| Agree | 72 |
| Do not know | 1 |
| Disagree | 5 |
| Strongly disagree | 1 |
| Attentive public to science and technology ^a (number = 19 | 5) |
| Strongly agree | 21 |
| Agree | 68 |
| Do not know | 2 |
| Disagree | 7 |
| Strongly disagree | 3 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTES: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following statement: There are some good ways of treating sickness that medical science does not recognize. Do you strongly agree, disagree, or strongly disagree?

Appendix table 7-59.

Public assessment of magnetic therapy, by selected characteristics: 2001

(Percentages)

| Characteristic | 2001 |
|--|------|
| All adults (number = 1,574) | |
| Very scientific | 14 |
| Sort of scientific | 54 |
| Not at all scientific | 25 |
| Do not know | 7 |
| Male (number = 751) | |
| Very scientific | 14 |
| Sort of scientific | 51 |
| Not at all scientific | 28 |
| Do not know | 6 |
| Female (number = 823) | |
| Very scientific | 14 |
| Sort of scientific | 56 |
| Not at all scientific | 22 |
| Do not know | 8 |
| Less than high school graduate (number = 116) | |
| Very scientific | 30 |
| Sort of scientific | 47 |
| Not at all scientific | 18 |
| Do not know | 5 |
| High school graduate (number = 834) | |
| Very scientific | 13 |
| Sort of scientific | 58 |
| Not at all scientific | 22 |
| Do not know | 6 |
| Baccalaureate and higher (number = 614) | |
| Very scientific | 8 |
| Sort of scientific | 47 |
| Not at all scientific | 35 |
| Do not know | 10 |
| Attentive public to science and technology ^a (number = 19 | 5) |
| Very scientific | 14 |
| Sort of scientific | 47 |
| Not at all scientific | 34 |
| Do not know | 5 |

^aTo be classified as attentive to a given policy area, an individual must indicate that he or she is "very interested" in that issue, is "very well informed" about it, and a regular reader of a daily newspaper or relevant national magazine. Individuals who report that they are "very interested" in an issue area but do not think that they are "very well informed" about it are classified as the "interested public." All other individuals are classified as members of the "residual public" for that issue. The attentive public for science and technology combines the attentive public for new scientific discoveries and the attentive public for new inventions and technologies. Any individual who is not attentive to either of those issues but who is a member of the interested public for at least one of those issues is classified as a member of the interested public for science and technology. All other individuals are classified as members of the residual public for science and technology.

NOTE: Percentages may not add to 100 because of rounding. A few respondents did not provide information about their highest level of education. Responses are to the following question: Based on what you've read or heard, would you say that magnetic therapy is very scientific, sort of scientific, or not at all scientific?

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), NSF Survey of Public Attitudes Toward and Understanding of Science and Technology, 2001.